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MA 02138 (US). ZHAO, Xumei; 6 Wildwood Lane,  
Burlington, MA 01803 (US).

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(74) Agents: SMITH, DeAnn, F. et al.; Lahive & Cockfield,  
LLP, 28 State Street, Boston, MA 02109 (US).

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(71) Applicant: **MILLENNIUM PREDICTIVE  
MEDICINE, INC.** [US/US]; One Kendall Square  
Bldg. 700, Cambridge, MA 02139 (US).

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(72) Inventors: **SCHLEGEL, Robert**; 211 Melrose Street,  
Auburndale, MA 02466 (US). **DEEDS, James**; 39 Cham-  
wood Road, #1, Somerville, MA 02144 (US). **BERGER,**  
Allison; 1105 Massachusetts Avenue, #8A, Cambridge,

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(54) Title: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVEN-  
TION, AND THERAPY OF CERVICAL CANCER

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human  
cervical cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers  
is correlated with the presence of cervical cancer.

NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR  
IDENTIFICATION, ASSESSMENT, PREVENTION,  
AND THERAPY OF CERVICAL CANCER

5 RELATED APPLICATIONS

The present application claims priority to U.S. provisional application serial no. 60/169,681, filed on December 8, 1999, U.S. provisional application serial no. 60/171,350, filed on December 21, 1999, U.S. provisional application serial no. 60/189,315, filed on March 14, 2000, U.S. provisional application serial no. 60/203,791,  
10 filed on May 12, 2000, and U.S. provisional application serial no. 60/210,600, filed on June 9, 2000, all of which are expressly incorporated by reference.

FIELD OF THE INVENTION

The field of the invention is cervical cancer, including diagnosis,  
15 characterization, management, and therapy of cervical cancer.

BACKGROUND OF THE INVENTION

The increased number of cancer cases reported in the United States, and, indeed, around the world, is a major concern. Currently there are only a handful of treatments  
20 available for specific types of cancer, and these provide no absolute guarantee of success. In order to be most effective, these treatments require not only an early detection of the malignancy, but a reliable assessment of the severity of the malignancy.

Cancer of the cervix is one of the most common malignancies in women and remains a significant public health problem throughout the world. In the United States  
25 alone, invasive cervical cancer accounts for approximately 19% of all gynecological cancers. In 1996, it is estimated that there will be 14,700 newly diagnosed cases and 4900 deaths attributed to this disease (American Cancer Society, Cancer Facts & Figures 1996, Atlanta, Ga.: American Cancer Society, 1996). In many developing countries, where mass screening programs are not widely available, the clinical problem is more  
30 serious. Worldwide, the number of new cases is estimated to be 471,000 with a four-year survival rate of only 40% (Munoz et al., 1989, *Epidemiology of Cervical Cancer* In: "Human Papillomavirus", New York, Oxford Press, pp 9-39; National Institutes of



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Health, Consensus Development Conference Statement on Cervical Cancer, Apr.1-3, 1996).

The precursor to cervical cancer is dysplasia, also known in the art as cervical intraepithelial neoplasia (CIN) or squamous intraepithelial lesions (SIL). While it is not understood how normal cells become transformed, the concept of a continuous spectrum of histopathological change from normal, stratified epithelium through CIN to invasive cancer has been widely accepted for many years. A large body of epidemiological and molecular biological evidence has established human papillomavirus (HPV) infection as a causative factor in cervical cancer. HPV is found in 85% or more of squamous cell invasive lesions, which represent the most common histologic type seen in cervical carcinoma. Additional cofactors have also been identified, including oncogenes that have been activated by point mutations and chromosomal translocations or deletions.

In light of this, cervical cancer remains a highly preventable form of cancer when pre-invasive lesions are detected early. Cytological examination of Papanicolaou-stained cervical smears (also referred to as Pap smears) is currently the principle method for detecting cervical cancer. Not surprisingly, the effectiveness of Pap smear screening varies depending not only upon the quality of the sample being used, but also upon subjective parameters that are inherent to the analysis. In addition, despite the historical success of the test, concerns have arisen regarding its ability to reliably predict the behavior of some pre-invasive lesions (Ostor *et al.*, 1993, *Int. J. Gynecol. Pathol.* 12: 186-192; and Genest *et al.*, 1993, *Human Pathol.* 24: 730-736).

It would be therefore be desirable to provide specific methods and reagents for the diagnosis, staging, prognosis, monitoring, and treatment of diseases associated with cervical cancer, or to indicate a predisposition to such for preventative measures.

## SUMMARY OF THE INVENTION

The invention relates to novel genes associated with cervical cancer as well as methods of assessing whether a patient is afflicted with cervical cancer. "Cervical cancer" as used herein includes pre-malignant conditions, *e.g.*, CIN and SIL. The methods of the present invention comprise the step of comparing the level of expression of a novel marker in a patient sample, wherein the marker is listed within Tables 1-4, and the normal level of expression of the marker in a control, *e.g.*, a sample from a

patient without cervical cancer. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer or has a pre-malignant condition (*e.g.*, CIN and/or SIL).

In one method, the marker(s) are preferably selected such that the positive  
5 predictive value of the method is at least about 10%. Also preferred are embodiments of the method wherein the marker is differentially-expressed by at least two-fold in at least about 20% of any of the following conditions: stage 0 cervical cancer patients, stage I cervical cancer patients, stage II cervical cancer patients, stage III cervical cancer patients, stage IV cervical cancer patients, grade I cervical cancer patients, grade II  
10 cervical cancer patients, grade III cervical cancer patients, squamous cell (epidermoid) cervical cancer patients, cervical adenocarcinoma patients, cervical adenosquamous carcinoma patients, small-cell cervical carcinoma patients, malignant cervical cancer patients, patients with primary carcinomas of the cervix, patients with primary malignant lymphomas of the cervix and patients with secondary malignant lymphomas of the  
15 cervix, and all other types of cancers, malignancies and transformations associated with the cervix.

In one embodiment of the methods of the present invention, the sample comprises cells obtained from the patient. The cells may be found in a cervical smear collected, for example, by a cervical brush. In another embodiment, the patient sample  
20 is a cervical-associated body fluid. Such fluids include, for example, blood fluids, lymph, ascitic fluids, gynecological fluids, urine, and fluids collected by peritoneal rinsing.

In accordance with the methods of the present invention, the presence and/or level of expression of the marker in a sample can be assessed, for example, by detecting  
25 the presence in the sample of :

- a protein corresponding to the marker or a fragment of the protein (*e.g.* using a reagent, such as an antibody, an antibody derivative, or an antibody fragment, which binds specifically with the protein or a fragment of the protein)  
30
- a metabolite which is produced directly (*i.e.*, catalyzed) or indirectly by a protein corresponding to the marker

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- a transcribed polynucleotide (*e.g.* an mRNA or a cDNA), or fragment thereof, having at least a portion with which the marker is substantially homologous (*e.g.* by contacting a mixture of transcribed polynucleotides obtained from the sample with a substrate having one or more of the markers listed within Tables 1-4 fixed thereto at selected positions)
- a transcribed polynucleotide or fragment thereof, wherein the polynucleotide anneals with the marker under stringent hybridization conditions.

The methods of the present invention are particularly useful for identifying patients with a pre-malignant condition such as CIN and/or SIL. The methods are also useful for further diagnosing patients having an identified cervical mass or symptoms associated with cervical cancer. The methods of the present invention can further be of particular use with patients having an enhanced risk of developing cervical cancer (*e.g.*, patients having a familial history of cervical cancer and patients identified as having a mutant oncogene). The methods of the present invention may further be of particular use in monitoring the efficacy of treatment of a cervical cancer patient (*e.g.* the efficacy of chemotherapy).

The methods of the present invention may be performed using a plurality (*e.g.* 2, 3, 5, or 10 or more) of markers. According to a method involving a plurality of markers, the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-4 is compared with the normal level of expression of each of the plurality of markers in samples of the same type obtained from control humans not afflicted with cervical cancer. A significantly enhanced level of expression in the sample of one or more of the markers listed in Tables 1-4, or some combination thereof, relative to that marker's corresponding normal levels, is an indication that the patient is afflicted with cervical cancer. The markers of Tables 1-4 may also be used in combination with known cervical cancer markers in the methods of the present invention.

In a preferred method of assessing whether a patient is afflicted with cervical cancer (*e.g.*, new detection ("screening"), detection of recurrence, reflex testing), the method comprises comparing:

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- a) the level of expression of a marker in a patient sample, wherein at least one marker is selected from the markers of Tables 1-4, and
  - b) the normal level of expression of the marker in a control non-cervical cancer sample.
- 5    A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer.

- The invention further relates to a method of assessing the efficacy of a therapy
- 10    for inhibiting cervical cancer in a patient. This method comprises comparing:
- a) expression of a marker in a first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed within Tables 1-4, and
  - 15    b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy.

A significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting cervical cancer in the patient.

- 20    It will be appreciated that in this method the "therapy" may be any therapy for treating cervical cancer including, but not limited to, chemotherapy, radiation therapy and surgical removal of tissue, *e.g.*, a cervical tumor. Thus, the methods of the invention may be used to evaluate a patient before, during and after therapy, for example, to evaluate the reduction in tumor burden.

- 25    The present invention therefore further comprises a method for monitoring the progression of cervical cancer in a patient, the method comprising:
- a) detecting in a patient sample at a first time point, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4;
  - 30    b) repeating step a) at a subsequent time point in time; and
  - c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of cervical cancer in the patient.

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The invention also includes a method of selecting a composition for inhibiting cervical cancer in a patient. This method comprises the steps of:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker listed within Tables 1-4 in each of the aliquots; and
- d) selecting one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

In addition, the invention includes a method of inhibiting cervical cancer in a patient. This method comprises the steps of:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker listed within Tables 1-4 in each of the aliquots; and
- d) administering to the patient at least one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

The invention also includes a kit for assessing whether a patient is afflicted with cervical cancer. This kit comprises reagents for assessing expression of a marker listed within Tables 1-4.

In another aspect, the invention relates to a kit for assessing the suitability of each of a plurality of compounds for inhibiting a cervical cancer in a patient. The kit comprises a reagent for assessing expression of a marker listed within Tables 1-4, and may also comprise a plurality of compounds.

In another aspect, the invention relates to a kit for assessing the presence of cervical cancer cells. This kit comprises an antibody, wherein the antibody binds specifically with a protein corresponding to a marker listed within Tables 1-4. The kit may also comprise a plurality of antibodies, wherein the plurality binds specifically with a protein corresponding to a different marker listed within Tables 1-4.

The invention also includes a kit for assessing the presence of cervical cancer cells, wherein the kit comprises a nucleic acid probe. The probe binds specifically with a transcribed polynucleotide corresponding to a marker listed within Tables 1-4. The kit may also comprise a plurality of probes, wherein each of the probes binds specifically with a transcribed polynucleotide corresponding to a different marker listed within Tables 1-4.

The invention further relates to a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer. The method comprises isolating a protein or protein fragment corresponding to a marker listed within Tables 1-4, immunizing a mammal using the isolated protein or protein fragment, isolating splenocytes from the immunized mammal, fusing the isolated splenocytes with an immortalized cell line to form hybridomas, and screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma. The invention also includes an antibody produced by this method.

The invention further includes a method of assessing the cervical carcinogenic potential of a test compound. This method comprises the steps of:

- a) maintaining separate aliquots of cervical cells in the presence and absence of the test compound; and
- b) comparing expression of a marker in each of the aliquots.

The marker is selected from those listed within Tables 1-4. A significantly enhanced level of expression of the marker in the aliquot maintained in the presence of (or exposed to) the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses cervical carcinogenic potential.

Additionally, the invention includes a kit for assessing the cervical carcinogenic potential of a test compound. The kit comprises cervical cells and a reagent for assessing expression of a marker in each of the aliquots. The marker is selected from those listed within Tables 1-4.

The invention further relates to a method of treating a patient afflicted with cervical cancer. This method comprises providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker listed within Tables 1-4.

5       The invention includes a method of inhibiting cervical cancer in a patient at risk for developing cervical cancer. This method comprises inhibiting expression or overexpression of a gene corresponding to a marker listed within Tables 1-4.

It will be appreciated that the methods and kits of the present invention may also include known cancer markers including known cervical cancer markers. It will further  
10   be appreciated that the methods and kits may be used to identify cancers other than cervical cancer.

#### DETAILED DESCRIPTION OF THE INVENTION

The invention relates to newly discovered genes associated with the cancerous  
15   state of cervical cells. It has been discovered that the level of expression of these individual genes, also referred to as markers, and combinations of these genes correlates with the presence of cervical cancer or a pre-malignant condition in a patient. Methods are provided for detecting the presence of cervical cancer in a sample, the absence of cervical cancer in a sample, the stage of cervical cancer, and with other characteristics of  
20   cervical cancer that are relevant to prevention, diagnosis, characterization and therapy of cervical cancer in a patient. As used herein, "cervical cancer" includes pre-malignant conditions including CIN and SIL.

#### Definitions

25       As used herein, each of the following terms has the meaning associated with it in this section.

The articles "a" and "an" are used herein to refer to one or to more than one (*i.e.* to at least one) of the grammatical object of the article. By way of example, "an element" means one element or more than one element.

30       A "marker" is a naturally-occurring polymer corresponding to at least one of the novel nucleic acids listed within Tables 1-4. For example, markers include, without limitation, sense and anti-sense strands of genomic DNA (*i.e.* including any introns

occurring therein), RNA generated by transcription of genomic DNA (*i.e.* prior to splicing), RNA generated by splicing of RNA transcribed from genomic DNA, and proteins generated by translation of spliced RNA (*i.e.* including proteins both before and after cleavage of normally cleaved regions such as transmembrane signal sequences).

- 5 As used herein, "marker" may also include a cDNA made by reverse transcription of an RNA generated by transcription of genomic DNA (including spliced RNA).

As used herein a "polynucleotide corresponds to" another (a first) polynucleotide if it is related to the first polynucleotide by any of the following relationships: The second polynucleotide comprises the first polynucleotide and the second polynucleotide  
10 encodes a gene product; 2) The second polynucleotide is 5' or 3' to the first polynucleotide in cDNA, RNA, genomic DNA, or fragment of any of these polynucleotides. For example, a second polynucleotide may be a fragment of a gene that includes the first and second polynucleotides. The first and second polynucleotides are related in that they are components of the gene coding for a gene product, such as a  
15 protein or antibody. However, it is not necessary that the second polynucleotide comprises or overlaps with the first polynucleotide to be encompassed within the definition of "corresponding to" as used herein. For example, the first polynucleotide may be a fragment of a 3' untranslated region of the second polynucleotide. The first and second polynucleotide may be fragments of a gene coding for a gene product. The  
20 second polynucleotide may be an exon of the gene while the first polynucleotide may be an intron of the gene; 3) The second polynucleotide is the complement of the first polynucleotide.

The term "probe" refers to any molecule which is capable of selectively binding to a specifically intended target molecule, for example a marker of the invention.

- 25 Probes can be either synthesized by one skilled in the art, or derived from appropriate biological preparations. For purposes of detection of the target molecule, probes may be specifically designed to be labeled, as described herein. Examples of molecules that can be utilized as probes include, but are not limited to, RNA, DNA, proteins, antibodies, and organic monomers.

- 30 A "cervical-associated" body fluid is a fluid which, when in the body of a patient, contacts or passes through cervical cells or into which cells or proteins shed from cervical cells are capable of passing. Exemplary cervical-associated body fluids



include blood fluids, lymph, ascites, gynecological fluids, cystic fluid, urine, and fluids collected by peritoneal rinsing.

The "normal" level of expression of a marker is the level of expression of the marker in cervical cells of a patient, *e.g.* a human, not afflicted with cervical cancer.

5 "Over-expression" and "under-expression" of a marker refer to expression of the marker of a patient at a greater or lesser level, respectively, than normal level of expression of the marker (*e.g.* at least two-fold greater or lesser level).

As used herein, the term "promoter/regulatory sequence" means a nucleic acid sequence which is required for expression of a gene product operably linked to the  
10 promoter/regulatory sequence. In some instances, this sequence may be the core promoter sequence and in other instances, this sequence may also include an enhancer sequence and other regulatory elements which are required for expression of the gene product. The promoter/regulatory sequence may, for example, be one which expresses the gene product in a tissue-specific manner.

15 A "constitutive" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell under most or all physiological conditions of the cell.

An "inducible" promoter is a nucleotide sequence which, when operably linked  
20 with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only when an inducer which corresponds to the promoter is present in the cell.

A "tissue-specific" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene  
25 product to be produced in a living human cell substantially only if the cell is a cell of the tissue type corresponding to the promoter.

A "transcribed polynucleotide" is a polynucleotide (*e.g.* an RNA, a cDNA, or an analog of one of an RNA or cDNA) which is complementary to or homologous with all or a portion of a mature RNA made by transcription of a genomic DNA corresponding  
30 to a marker of the invention and normal post-transcriptional processing (*e.g.* splicing), if any, of the transcript.

"Complementary" refers to the broad concept of sequence complementarity between regions of two nucleic acid strands or between two regions of the same nucleic acid strand. It is known that an adenine residue of a first nucleic acid region is capable of forming specific hydrogen bonds ("base pairing") with a residue of a second nucleic acid region which is antiparallel to the first region if the residue is thymine or uracil. Similarly, it is known that a cytosine residue of a first nucleic acid strand is capable of base pairing with a residue of a second nucleic acid strand which is antiparallel to the first strand if the residue is guanine. A first region of a nucleic acid is complementary to a second region of the same or a different nucleic acid if, when the two regions are arranged in an antiparallel fashion, at least one nucleotide residue of the first region is capable of base pairing with a residue of the second region. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, when the first and second portions are arranged in an antiparallel fashion, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion. More preferably, all nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion.

"Homologous" as used herein, refers to nucleotide sequence similarity between two regions of the same nucleic acid strand or between regions of two different nucleic acid strands. When a nucleotide residue position in both regions is occupied by the same nucleotide residue, then the regions are homologous at that position. A first region is homologous to a second region if at least one nucleotide residue position of each region is occupied by the same residue. Homology between two regions is expressed in terms of the proportion of nucleotide residue positions of the two regions that are occupied by the same nucleotide residue. By way of example, a region having the nucleotide sequence 5'-ATTGCC-3' and a region having the nucleotide sequence 5'-TATGGC-3' share 50% homology. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residue positions of each of the portions are occupied by the same nucleotide residue. More preferably, all nucleotide residue positions of each of the portions are occupied by the same nucleotide residue.

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A marker is "fixed" to a substrate if it is covalently or non-covalently associated with the substrate such the substrate can be rinsed with a fluid (*e.g.* standard saline citrate, pH 7.4) without a substantial fraction of the marker dissociating from the substrate.

- 5           As used herein, a "naturally-occurring" nucleic acid molecule refers to an RNA or DNA molecule having a nucleotide sequence that occurs in nature (*e.g.* encodes a natural protein).

- Expression of a marker in a patient is "significantly" higher than the normal level of expression of a marker if the level of expression of the marker is greater than the  
10   normal level by an amount greater than the standard error of the assay employed to assess expression, and preferably at least twice, and more preferably three, four, five or ten times that amount. Alternately, expression of the marker in the patient can be considered "significantly" higher or lower than the normal level of expression if the level of expression is at least about two, and preferably at least about three, four, or five  
15   times, higher or lower, respectively, than the normal level of expression of the marker.

Cervical cancer is "inhibited" if at least one symptom of the cancer is alleviated, terminated, slowed, or prevented. As used herein, cervical cancer is also "inhibited" if recurrence or metastasis of the cancer is reduced, slowed, delayed, or prevented.

- A kit is any manufacture (*e.g.* a package or container) comprising at least one  
20   reagent, *e.g.* a probe, for specifically detecting a marker of the invention, the manufacture being promoted, distributed, or sold as a unit for performing the methods of the present invention.

#### Description

- 25           The present invention is based, in part, on identification of novel markers which are expressed at a higher level in cervical cancer cells than they are in normal (*i.e.* non-cancerous) cervical cells. The markers of the invention correspond to nucleic acid and polypeptide molecules which can be detected in one or both of normal and cancerous cervical cells. The presence, absence, or level of expression of one or more of these  
30   markers in cervical cells is herein correlated with the cancerous state of the tissue. The invention thus includes compositions, kits, and methods for assessing the cancerous state

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of cervical cells (*e.g.* cells obtained from a human, cultured human cells, archived or preserved human cells and *in vivo* cells).

The compositions, kits, and methods of the invention have the following uses, among others:

- 5           1)       assessing whether a patient is afflicted with cervical cancer, including assessing whether the patient has a pre-malignant condition, *e.g.*, CIN and/or SIL;
- 2)       assessing the stage of cervical cancer in a human patient;
- 3)       assessing the grade of cervical cancer in a patient;
- 4)       assessing the benign or malignant nature of cervical cancer in a patient;
- 10          5)       assessing the histological type of neoplasm (*e.g.* squamous cell, small cell, etc.) associated with cervical cancer in a patient;
- 6)       making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer;
- 7)       assessing the presence of cervical cancer cells;
- 15          8)       assessing the efficacy of one or more test compounds for inhibiting cervical cancer in a patient;
- 9)       assessing the efficacy of a therapy for inhibiting cervical cancer in a patient;
- 10)       monitoring the progression of cervical cancer in a patient;
- 20          11)       selecting a composition or therapy for inhibiting cervical cancer in a patient;
- 12)       treating a patient afflicted with cervical cancer;
- 13)       inhibiting cervical cancer in a patient;
- 14)       assessing the cervical carcinogenic potential of a test compound;
- 25               and
- 15)       inhibiting cervical cancer in a patient at risk for developing cervical cancer.

30           The invention thus includes a method of assessing whether a patient is afflicted with cervical cancer which includes assessing whether the patient has a pre-malignant condition. This method comprises comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control, *e.g.*, a non-

cervical cancer sample. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer. The marker is selected from the group consisting of the markers listed within Tables 1-4.

5           The polynucleotides set forth in Tables 1-4 represent previously unidentified nucleotide sequences. These nucleotide sequences were identified through subtracted library experiments described herein. Also provided by this invention are polynucleotides that correspond to the polynucleotides of Tables 1-4. In one embodiment, these polynucleotides are obtained by identification of a larger fragment or  
10 full-length coding sequence of these polynucleotides. Gene delivery vehicles, host cells, compositions and databases (all describe herein) containing these polynucleotides are also provided by this invention.

          The invention also encompasses polynucleotides which differ from that of the polynucleotides described above, but which produce the same phenotypic effect, such as  
15 an allelic variant. These altered, but phenotypically equivalent polynucleotides are referred to as "equivalent nucleic acids." This invention also encompasses polynucleotides characterized by changes in non-coding regions that do not alter the polypeptide produced therefrom when compared to the polynucleotide herein. This invention further encompasses polynucleotides, which hybridize to the polynucleotides  
20 of the subject invention under conditions of moderate or high stringency. Alternatively, the polynucleotides are at least 85%, or at least 90%, or more preferably, greater or equal to 95% identical as determined by a sequence alignment program when run under default parameters.

          Any marker or combination of markers listed within Tables 1-4, as well as any  
25 known markers in combination with the markers set forth within Tables 1-4, may be used in the compositions, kits, and methods of the present invention. In general, it is preferable to use markers for which the difference between the level of expression of the marker in cervical cancer cells and the level of expression of the same marker in normal cervical cells is as great as possible. Although this difference can be as small as the  
30 limit of detection of the method for assessing expression of the marker, it is preferred that the difference be at least greater than the standard error of the assessment method,

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and preferably a difference of at least 2-, 3-, 4-, 5-, 6-, 7-, 8-, 9-, 10-, 15-, 20-, 25-, 100-, 500-, 1000-fold or greater.

It will be appreciated that patient samples containing cervical cells may be used in the methods of the present invention. In these embodiments, the level of expression  
5 of the marker can be assessed by assessing the amount (*e.g.* absolute amount or concentration) of the marker in a cervical cell sample, *e.g.*, cervical smear, obtained from a patient. The cell sample can, of course, be subjected to a variety of well-known post-collection preparative and storage techniques (*e.g.* storage, freezing, ultrafiltration, concentration, evaporation, centrifugation, etc.) prior to assessing the amount of the  
10 marker in the sample. Likewise cervical smears may also be subjected to post-collection preparative and storage techniques, *e.g.*, fixation.

It will also be appreciated that certain markers correspond to proteins or fragments thereof, which are secreted from cervical cells (*i.e.* one or both of normal and cancerous cells) to the extracellular space surrounding the cells. These markers are  
15 preferably used in certain embodiments of the compositions, kits, and methods of the invention, owing to the fact that the protein or fragment thereof, corresponding to each of these markers can be detected in a cervical-associated body fluid sample. In addition, preferred *in vivo* techniques for detection of a protein or fragment thereof, corresponding to a marker of the invention include introducing into a subject a labeled antibody  
20 directed against the protein or fragment of the protein. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

Although not every marker corresponding to a secreted protein is indicated as such herein, it is a simple matter for the skilled artisan to determine whether any  
25 particular marker corresponds to a secreted protein. In order to make this determination, the protein corresponding to a marker is expressed in a test cell (*e.g.* a cell of a cervical cell line), extracellular fluid is collected, and the presence or absence of the protein in the extracellular fluid is assessed (*e.g.* using a labeled antibody which binds specifically with the protein).

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The following is an example of a method which can be used to detect secretion of a protein corresponding to a marker of the invention. About  $8 \times 10^5$  293T cells are incubated at 37°C in wells containing growth medium (Dulbecco's modified Eagle's medium {DMEM} supplemented with 10% fetal bovine serum) under a 5% (v/v) CO<sub>2</sub>, 95% air atmosphere to about 60-70% confluence. The cells are then transfected using a standard transfection mixture comprising 2 micrograms of DNA comprising an expression vector encoding the protein and 10 microliters of LipofectAMINE™ (GIBCO/BRL Catalog no. 18342-012) per well. The transfection mixture is maintained for about 5 hours, and then replaced with fresh growth medium and maintained in an air atmosphere. Each well is gently rinsed twice with DMEM which does not contain methionine or cysteine (DMEM-MC; ICN Catalog no. 16-424-54). About 1 milliliter of DMEM-MC and about 50 microcuries of Trans-<sup>35</sup>S™ reagent (ICN Catalog no. 51006) are added to each well. The wells are maintained under the 5% CO<sub>2</sub> atmosphere described above and incubated at 37°C for a selected period. Following incubation, 150 microliters of conditioned medium is removed and centrifuged to remove floating cells and debris. The presence of the protein in the supernatant is an indication that the protein is secreted.

Examples of cervical-associated body fluids include blood fluids (*e.g.* whole blood, blood serum, blood having platelets removed therefrom, etc.), lymph, ascitic fluids, gynecological fluids (*e.g.* cervix, fallopian, and uterine secretions, menses, vaginal douching fluids, fluids used to rinse cervical cell samples, etc.), cystic fluid, urine, and fluids collected by peritoneal rinsing (*e.g.* fluids applied and collected during laparoscopy or fluids instilled into and withdrawn from the peritoneal cavity of a human patient).

Many cervical-associated body fluids can have cervical cells therein, particularly when the cervical cells are cancerous, and, more particularly, when the cervical cancer is metastasizing. Cell-containing fluids which can contain cervical cancer cells include, but are not limited to, peritoneal ascites, fluids collected by peritoneal rinsing, fluids collected by uterine rinsing, uterine fluids such as uterine exudate and menses, pleural fluid, and cervical exudates. Thus, the compositions, kits, and methods of the invention can be used to detect expression of markers corresponding to proteins or fragments thereof, having at least one portion which is displayed on the surface of cells which

express it. Although the proteins having at least one cell-surface portion are not set forth herein, it is a simple matter for the skilled artisan to determine whether the protein corresponding to any particular marker comprises a cell-surface protein. For example, immunological methods may be used to detect such proteins on whole cells, or well known computer-based sequence analysis methods (e.g. the SIGNALP program; Nielsen *et al.*, 1997, *Protein Engineering* 10:1-6) may be used to predict the presence of at least one extracellular domain (*i.e.* including both secreted proteins and proteins having at least one cell-surface domain). Expression of a marker corresponding to a protein or fragment thereof, having at least one portion which is displayed on the surface of a cell which expresses it may be detected without necessarily lysing the cell (e.g. using a labeled antibody which binds specifically with a cell-surface domain of the protein).

Expression of a marker of the invention may be assessed by any of a wide variety of well known methods for detecting expression of a transcribed molecule or protein. Non-limiting examples of such methods include immunological methods for detection of secreted, cell-surface, cytoplasmic, or nuclear proteins, protein purification methods, protein function or activity assays, nucleic acid hybridization methods, nucleic acid reverse transcription methods, and nucleic acid amplification methods. *In situ* hybridization (ISH) and immunohistochemistry (IHC) methods are preferred.

In another preferred embodiment, expression of a marker is assessed using an antibody (e.g. a radio-labeled, chromophore-labeled, fluorophore-labeled, or enzyme-labeled antibody), an antibody derivative (e.g. an antibody conjugated with a substrate or with the protein or ligand of a protein-ligand pair {e.g. biotin-streptavidin} ), or an antibody fragment (e.g. a single-chain antibody, an isolated antibody hypervariable domain, etc.) which binds specifically with a protein or fragment thereof, corresponding to the marker, such as the protein encoded by the open reading frame corresponding to the marker or such a protein which has undergone all or a portion of its normal post-translational modification.

In yet another preferred embodiment, expression of a marker is assessed by preparing mRNA/cDNA (*i.e.* a transcribed polynucleotide) from cells in a patient sample, and by hybridizing the mRNA/cDNA with a reference polynucleotide which is a complement of a polynucleotide comprising the marker, and fragments thereof. cDNA can, optionally, be amplified using any of a variety of polymerase chain reaction



methods prior to hybridization with the reference polynucleotide. Expression of one or more markers can likewise be detected using quantitative PCR to assess the level of expression of the marker(s). Alternatively, any of the many known methods of detecting mutations or variants (*e.g.* single nucleotide polymorphisms, deletions, etc.) of a marker  
5 of the invention may be used to detect occurrence of a marker in a patient.

In a related embodiment, a mixture of transcribed polynucleotides obtained from the sample is contacted with a substrate having fixed thereto a polynucleotide complementary to or homologous with at least a portion (*e.g.* at least 7, 10, 15, 20, 25, 30, 40, 50, 100, 500, or more nucleotide residues) of a marker of the invention. If  
10 polynucleotides complementary to or homologous with are differentially detectable on the substrate (*e.g.* detectable using different chromophores or fluorophores, or fixed to different selected positions), then the levels of expression of a plurality of markers can be assessed simultaneously using a single substrate (*e.g.* a "gene chip" microarray of polynucleotides fixed at selected positions). When a method of assessing marker  
15 expression is used which involves hybridization of one nucleic acid with another, it is preferred that the hybridization be performed under stringent hybridization conditions.

Because the compositions, kits, and methods of the invention rely on detection of a difference in expression levels of one or more markers of the invention, it is preferable that the level of expression of the marker is significantly greater than the minimum  
20 detection limit of the method used to assess expression in at least one of normal cervical cells and cancerous cervical cells.

It is understood that by routine screening of additional patient samples using one or more of the markers of the invention, it will be realized that certain of the markers are over- (or under-)expressed in cancers of various types, including specific cervical  
25 cancers, as well as other cancers such as ovarian cancer, breast cancer, etc. For example, it will be confirmed that some of the markers of the invention are over-expressed in most (*i.e.* 50% or more) or substantially all (*i.e.* 80% or more) of cervical cancer. Furthermore, it will be confirmed that certain of the markers of the invention are associated with cervical cancer of various stages (*i.e.* stage 0, I, II, III, and IV cervical  
30 cancers, as well as subclassifications IA1, IA2, IB, IB1, IB2, IIA, IIB, IIIA, IIIB, IVA, and IVB, using the FIGO Stage Grouping system for primary carcinoma of the cervix (see Gynecologic Oncology, 1991, 41:199 and Cancer, 1992, 69:482)), of various

histologic subtypes (*e.g.* squamous cell carcinomas and squamous cell carcinoma variants such as verrucous carcinoma, lymphoepithelioma-like carcinoma, papillary squamous neoplasm and spindle cell squamous cell carcinoma (see *Cervical Cancer and Preinvasive Neoplasia*, 1996, pp. 90-91), serous, mucinous, endometrioid, and clear cell subtypes, as well as subclassifications and alternate classifications adenocarcinoma, papillary adenocarcinoma, papillary cystadenocarcinoma, surface papillary carcinoma, malignant adenofibroma, cystadenofibroma, adenocarcinoma, cystadenocarcinoma, adenoacanthoma, endometrioid stromal sarcoma, mesodermal {Müllerian} mixed tumor, malignant carcinoma, Brenner tumor, mixed epithelial tumor, and undifferentiated carcinoma, using the WHO/FIGO system for classification of malignant cervical tumors; Scully, *Atlas of Tumor Pathology*, 3d series, Washington DC), and various grades (*i.e.* grade I {well differentiated} , grade II {moderately well differentiated}, and grade III {poorly differentiated from surrounding normal tissue} ). In addition, as a greater number of patient samples are assessed for expression of the markers of the invention and the outcomes of the individual patients from whom the samples were obtained are correlated, it will also be confirmed that altered expression of certain of the markers of the invention are strongly correlated with malignant cancers and that altered expression of other markers of the invention are strongly correlated with benign tumors. The compositions, kits, and methods of the invention are thus useful for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of cervical cancer in patients.

When the compositions, kits, and methods of the invention are used for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of cervical cancer in a patient, it is preferred that the marker or panel of markers of the invention is selected such that a positive result is obtained in at least about 20%, and preferably at least about 40%, 60%, or 80%, and more preferably in substantially all patients afflicted with a cervical cancer of the corresponding stage, grade, histological type, or benign/malignant nature. Preferably, the marker or panel of markers of the invention is selected such that a positive predictive value (PPV) of greater than about 10% is obtained for the general population (more preferably coupled with an assay specificity greater than 99.5%).

When a plurality of markers of the invention are used in the compositions, kits, and methods of the invention, the level of expression of each marker in a patient sample can be compared with the normal level of expression of each of the plurality of markers in non-cancerous samples of the same type, either in a single reaction mixture (*i.e.* using reagents, such as different fluorescent probes, for each marker) or in individual reaction mixtures corresponding to one or more of the markers. In one embodiment, a significantly enhanced level of expression of more than one of the plurality of markers in the sample, relative to the corresponding normal levels, is an indication that the patient is afflicted with cervical cancer. When a plurality of markers is used, it is preferred that 2, 3, 4, 5, 8, 10, 12, 15, 20, 30, or 50 or more individual markers be used, wherein fewer markers are preferred.

In order to maximize the sensitivity of the compositions, kits, and methods of the invention (*i.e.* by interference attributable to cells of non-cervical origin in a patient sample), it is preferable that the marker of the invention used therein be a marker which has a restricted tissue distribution, *e.g.*, normally not expressed in non-cervical tissue.

Only a small number of markers are known to be associated with cervical cancers (*e.g.* bcl-2, 15A8 antigen, cdc6, Mcm5, and EGFR). These markers are not, of course, included among the markers of the invention, although they may be used together with one or more markers of the invention in a panel of markers, for example. It is well known that certain types of genes, such as oncogenes, tumor suppressor genes, growth factor-like genes, protease-like genes, and protein kinase-like genes are often involved with development of cancers of various types. Thus, among the markers of the invention, use of those which correspond to proteins which resemble known proteins encoded by known oncogenes and tumor suppressor genes, and those which correspond to proteins which resemble growth factors, proteases, and protein kinases are preferred.

Known oncogenes and tumor suppressor genes include, for example, *abl*, *abr*, *akt2*, *apc*, *bcl2 $\alpha$* , *bcl2 $\beta$* , *bcl3*, *bcr*, *brca1*, *brca2*, *cbl*, *ccnd1*, *cdc42*, *cdk4*, *crk- II*, *csf1r/fms*, *dbl*, *dcc*, *dpc4/smad4*, *e-cad*, *e2f1/rbap*, *egfr/erbB-1*, *elk1*, *elk3*, *eph*, *erg*, *ets1*, *ets2*, *fer*, *fgr/src2*, *fli1/ergb2*, *fos*, *fps/fes*, *fra1*, *fra2*, *fyn*, *hck*, *hek*, *her2/erbB- 2/neu*, *her3/erbB-3*, *her4/erbB-4*, *hras1*, *hst2*, *hstf1*, *igfbp2*, *ink4a*, *ink4b*, *int2/fgf3*, *jun*, *junb*, *jund*, *kip2*, *kit*, *kras2a*, *kras2b*, *lck*, *lyn*, *mas*, *max*, *mcc*, *mdm2*, *met*, *mlh1*, *mmp10*, *mos*, *msh2*, *msh3*, *msh6*, *myb*, *myba*, *mybb*, *myc*, *mycl1*, *mycn*, *nfl*, *nf2*, *nme2*, *nras*, *p53*,

*pdgfb, phb, pim1, pms1, pms2, ptc, pten, raf1, rap1a, rb1, rel, ret, ros1, ski, src1, tall, tgfb2, tgfb3, tgfb3, thral, thrb, tiam1, timp3, tjp1, tp53, trk, vav, vhl, vil2, waf1, wnt1, wnt2, wt1, and yes1* (Hesketh, 1997, In: *The Oncogene and Tumour Suppressor Gene Facts Book*, 2nd Ed., Academic Press; Fishel *et al.*, 1994, *Science* 266:1403-1405).

5 Known growth factors include platelet-derived growth factor alpha, platelet-derived growth factor beta (simian sarcoma viral {v-sis} oncogene homolog), thrombopoietin (myeloproliferative leukemia virus oncogene ligand, megakaryocyte growth and development factor), erythropoietin, B cell growth factor, macrophage stimulating factor 1 (hepatocyte growth factor-like protein), hepatocyte growth factor  
10 (hepatopoietin A), insulin-like growth factor 1 (somatomedia C), hepatoma-derived growth factor, amphiregulin (schwannoma-derived growth factor), bone morphogenetic proteins 1, 2, 3, 3 beta, and 4, bone morphogenetic protein 7 (osteogenic protein 1), bone morphogenetic protein 8 (osteogenic protein 2), connective tissue growth factor, connective tissue activation peptide 3, epidermal growth factor (EGF), teratocarcinoma-  
15 derived growth factor 1, endothelin, endothelin 2, endothelin 3, stromal cell-derived factor 1, vascular endothelial growth factor (VEGF), VEGF-B, VEGF-C, placental growth factor (vascular endothelial growth factor-related protein), transforming growth factor alpha, transforming growth factor beta 1 and its precursors, transforming growth factor beta 2 and its precursors, fibroblast growth factor 1 (acidic), fibroblast growth  
20 factor 2 (basic), fibroblast growth factor 5 and its precursors, fibroblast growth factor 6 and its precursors, fibroblast growth factor 7 (keratinocyte growth factor), fibroblast growth factor 8 (androgen-induced), fibroblast growth factor 9 (glia-activating factor), pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1), brain-derived neurotrophic factor, and recombinant glial growth factor 2.

25 Known proteases include interleukin-1 beta convertase and its precursors, Mch6 and its precursors, Mch2 isoform alpha, Mch4, Cpp32 isoform alpha, Lice2 gamma cysteine protease, Ich-1S, Ich-1L, Ich-2 and its precursors, TY protease, matrix metalloproteinase 1 (interstitial collagenase), matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase), matrix metalloproteinase 7 (matrilysin),  
30 matrix metalloproteinase 8 (neutrophil collagenase), matrix metalloproteinase 12 (macrophage elastase), matrix metalloproteinase 13 (collagenase 3), metalloproteinase 1, cysteine-rich metalloproteinase (disintegrin) and its precursors, subtilisin-like protease Pc8

and its precursors, chymotrypsin, snake venom-like protease, cathepsin I, cathepsin D (lysosomal aspartyl protease), stromelysin, aminopeptidase N, plasminogen, tissue plasminogen activator, plasminogen activator inhibitor type II, and urokinase-type plasminogen activator.

- 5 Known protein kinases include DAP kinase, serine/threonine protein kinases NIK, PK428, Krs-2, SAK, and EMK, interferon-inducible double stranded RNA dependent protein kinase, FAST kinase, AIM1, IPL1-like midbody-associated protein kinase-1, NIMA-like protein kinase 1 (NLK1), the cyclin-dependent kinases (cdk1-10), checkpoint kinase Chk1, Nek3 protein kinase, BMK1 beta kinase, Clk1, Clk2, Clk3,
- 10 extracellular signal-regulated kinases 1, 3, and 6, cdc28 protein kinase 1, cdc28 protein kinase 2, pLK, Myt1, c-Jun N-terminal kinase 2, Cam kinase 1, the MAP kinases, insulin-stimulated protein kinase 1, beta-adrenergic receptor kinase 2, ribosomal protein S6 kinase, kinase suppressor of ras-1 (KSR1), putative serine/threonine protein kinase Prk, PkB kinase, cAMP-dependent protein kinase, cGMP-dependent protein kinase, type
- 15 II cGMP-dependent protein kinase, protein kinases Dyrk2, Dyrk3, and Dyrk4, Rho-associated coiled-coil containing protein kinase p160ROCK, protein tyrosine kinase t-Ror1, Ste20-related kinases, cell adhesion kinase beta, protein kinase 3, stress-activated protein kinase 4, protein kinase Zpk, serine kinase hPAK65, dual specificity mitogen-activated protein kinases 1 and 2, casein kinase I gamma 2, p21-activated protein kinase
- 20 Pak1, lipid-activated protein kinase PRK2, focal adhesion kinase, dual-specificity tyrosine-phosphorylation regulated kinase, myosin light chain kinase, serine kinases SRPK2, TESK1, and VRK2, B lymphocyte serine/threonine protein kinase, stress-activated protein kinases JNK1 and JNK2, phosphorylase kinase, protein tyrosine kinase Tec, Jak2 kinase, protein kinase Ndr, MEK kinase 3, SHB adaptor protein (a Src
- 25 homology 2 protein), agammaglobulinaemia protein-tyrosine kinase (Atk), protein kinase ATR, guanylate kinase 1, thrombopoietin receptor and its precursors, DAG kinase epsilon, and kinases encoded by oncogenes or viral oncogenes such as v-fgr (Gardner-Rasheed), v-abl (Abelson murine leukemia viral oncogene homolog 1), v-arg (Abelson murine leukemia viral oncogene homolog, Abelson-related gene), v-fes and v-
- 30 fps (feline sarcoma viral oncogene and Fujinami avian sarcoma viral oncogene homologs), proto-oncogene *c-cot*, oncogene *pim-1*, and oncogene *mas1*.

It is recognized that the compositions, kits, and methods of the invention will be of particular utility to patients having an enhanced risk of developing cervical cancer and their medical advisors. Patients recognized as having an enhanced risk of developing cervical cancer include, for example, patients having a familial history of cervical cancer, patients identified as having a mutant oncogene (*i.e.* at least one allele), and patients determined through any other established medical criteria to be at risk for cancer or other malignancy.

The level of expression of a marker in normal (*i.e.* non-cancerous) human cervical tissue can be assessed in a variety of ways. In one embodiment, this normal level of expression is assessed by assessing the level of expression of the marker in a portion of cervical cells which appears to be non-cancerous and by comparing this normal level of expression with the level of expression in a portion of the cervical cells which is suspected of being cancerous. For example, the normal level of expression of a marker may be assessed using a non-affected portion of the cervix and this normal level of expression may be compared with the level of expression of the same marker in an affected portion of the cervix. Alternately, and particularly as further information becomes available as a result of routine performance of the methods described herein, population-average values for normal expression of the markers of the invention may be used. In other embodiments, the 'normal' level of expression of a marker may be determined by assessing expression of the marker in a patient sample obtained from a non-cancer-afflicted patient, from a patient sample obtained from a patient before the suspected onset of cervical cancer in the patient, from archived patient samples, and the like.

The invention includes compositions, kits, and methods for assessing the presence of cervical cancer cells in a sample (*e.g.* an archived tissue sample or a sample obtained from a patient). These compositions, kits, and methods are substantially the same as those described above, except that, where necessary, the compositions, kits, and methods are adapted for use with samples other than patient samples. For example, when the sample to be used is a paraffinized, archived human tissue sample, it can be necessary to adjust the ratio of compounds in the compositions of the invention, in the kits of the invention, or the methods used to assess levels of marker expression in the

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sample. Such methods are well known in the art and within the skill of the ordinary artisan.

The invention includes a kit for assessing the presence of cervical cancer cells (e.g. in a sample such as a patient sample). The kit comprises a plurality of reagents, 5 each of which is capable of binding specifically with a nucleic acid or polypeptide corresponding to a marker of the invention. Suitable reagents for binding with a polypeptide corresponding to a marker of the invention include antibodies, antibody derivatives, antibody fragments, and the like. Suitable reagents for binding with a nucleic acid (e.g. a genomic DNA, an mRNA, a spliced mRNA, a cDNA, or the like) 10 include complementary nucleic acids. For example, the nucleic acid reagents may include oligonucleotides (labeled or non-labeled) fixed to a substrate, labeled oligonucleotides not bound with a substrate, pairs of PCR primers, molecular beacon probes, and the like.

The kit of the invention may optionally comprise additional components useful 15 for performing the methods of the invention. By way of example, the kit may comprise fluids (e.g. SSC buffer) suitable for annealing complementary nucleic acids or for binding an antibody with a protein with which it specifically binds, one or more sample compartments, an instructional material which describes performance of a method of the invention, a sample of normal cervical cells, a sample of cervical cancer cells, and the 20 like.

The invention also includes a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer. In this method, a protein corresponding to a marker of the invention is isolated (e.g. by purification from a cell in which it is expressed or by transcription and 25 translation of a nucleic acid encoding the protein *in vivo* or *in vitro* using known methods). A vertebrate, preferably a mammal such as a mouse, rat, rabbit, or sheep, is immunized using the isolated protein or protein fragment. The vertebrate may optionally (and preferably) be immunized at least one additional time with the isolated protein or protein fragment, so that the vertebrate exhibits a robust immune response to 30 the protein or protein fragment. Splenocytes are isolated from the immunized vertebrate and fused with an immortalized cell line to form hybridomas, using any of a variety of methods well known in the art. Hybridomas formed in this manner are then screened

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using standard methods to identify one or more hybridomas which produce an antibody which specifically binds with the protein or protein fragment. The invention also includes hybridomas made by this method and antibodies made using such hybridomas.

The invention also includes a method of assessing the efficacy of a test compound for inhibiting cervical cancer cells. As described above, differences in the level of expression of the markers of the invention correlate with the cancerous state of cervical cells. Although it is recognized that changes in the levels of expression of certain of the markers of the invention likely result from the cancerous state of cervical cells, it is likewise recognized that changes in the levels of expression of other of the markers of the invention induce, maintain, and promote the cancerous state of those cells. Thus, compounds which inhibit cervical cancer in a patient will cause the level of expression of one or more of the markers of the invention to change to a level nearer the normal level of expression for that marker (*i.e.* the level of expression for the marker in non-cancerous cervical cells).

This method thus comprises comparing expression of a marker in a first cervical cell sample and maintained in the presence of the test compound and expression of the marker in a second cervical cell sample and maintained in the absence of the test compound. A significant decrease in the level of expression of a marker listed within Tables 1-4 is an indication that the test compound inhibits cervical cancer. The cervical cell samples may, for example, be aliquots of a single sample of normal cervical cells obtained from a patient, pooled samples of normal cervical cells obtained from a patient, cells of a normal cervical cell line, aliquots of a single sample of cervical cancer cells obtained from a patient, pooled samples of cervical cancer cells obtained from a patient, cells of a cervical cancer cell line, or the like. In one embodiment, the samples are cervical cancer cells obtained from a patient and a plurality of compounds known to be effective for inhibiting various cervical cancers are tested in order to identify the compound which is likely to best inhibit the cervical cancer in the patient.

This method may likewise be used to assess the efficacy of a therapy for inhibiting cervical cancer in a patient. In this method, the level of expression of one or more markers of the invention in a pair of samples (one subjected to the therapy, the other not subjected to the therapy) is assessed. As with the method of assessing the efficacy of test compounds, if the therapy induces a significant decrease in the level of



expression of a marker listed within Tables 1-4, or blocks induction of a marker listed within Tables 1-4, then the therapy is efficacious for inhibiting cervical cancer. As above, if samples from a selected patient are used in this method, then alternative therapies can be assessed *in vitro* in order to select a therapy most likely to be  
5 efficacious for inhibiting cervical cancer in the patient.

As described herein, cervical cancer in patients is associated with an increase in the level of expression of one or more markers listed within Tables 1-4. While, as discussed above, some of these changes in expression level result from occurrence of the cervical cancer, others of these changes induce, maintain, and promote the cancerous  
10 state of cervical cancer cells. Thus, cervical cancer characterized by an increase in the level of expression of one or more markers listed within Tables 1-4 can be controlled or suppressed by inhibiting expression of those markers.

Expression of a marker listed within Tables 1-4 can be inhibited in a number of ways generally known in the art. For example, an antisense oligonucleotide can be  
15 provided to the cervical cancer cells in order to inhibit transcription, translation, or both, of the marker(s). Alternately, a polynucleotide encoding an antibody, an antibody derivative, or an antibody fragment, and operably linked with an appropriate promoter/regulator region, can be provided to the cell in order to generate intracellular antibodies which will inhibit the function or activity of the protein corresponding to the  
20 marker(s). Using the methods described herein, a variety of molecules, particularly including molecules sufficiently small that they are able to cross the cell membrane, can be screened in order to identify molecules which inhibit expression of the marker(s). The compound so identified can be provided to the patient in order to inhibit expression of the marker(s) in the cervical cancer cells of the patient.

25 As described above, the cancerous state of human cervical cells is correlated with changes in the levels of expression of the markers of the invention. Thus, compounds which induce increased expression of one or more of the markers listed within Tables 1-4 can induce cervical cell carcinogenesis. The invention thus includes a method for assessing the human cervical cell carcinogenic potential of a test compound.  
30 This method comprises maintaining separate aliquots of human cervical cells in the presence and absence of the test compound. Expression of a marker of the invention in each of the aliquots is compared. A significant increase in the level of expression of a

marker listed within Tables 1-4 in the aliquot maintained in the presence of the test compound (relative to the aliquot maintained in the absence of the test compound) is an indication that the test compound possesses human cervical cell carcinogenic potential. The relative carcinogenic potentials of various test compounds can be assessed by  
5 comparing the degree of enhancement or inhibition of the level of expression of the relevant markers, by comparing the number of markers for which the level of expression is enhanced or inhibited, or by comparing both.

Various aspects of the invention are described in further detail in the following subsections.

10

#### I. Isolated Nucleic Acid Molecules

One aspect of the invention pertains to novel isolated nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention or a portion of such a  
15 polypeptide. Isolated nucleic acids of the invention also include nucleic acid molecules sufficient for use as hybridization probes to identify nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention, and fragments of such nucleic acid molecules, *e.g.*, those suitable for use as PCR primers for the amplification or  
20 mutation of nucleic acid molecules. As used herein, the term "nucleic acid molecule" is intended to include DNA molecules (*e.g.*, cDNA or genomic DNA) and RNA molecules (*e.g.*, mRNA) and analogs of the DNA or RNA generated using nucleotide analogs. The nucleic acid molecule can be single-stranded or double-stranded, but preferably is double-stranded DNA.

25 An "isolated" nucleic acid molecule is one which is separated from other nucleic acid molecules which are present in the natural source of the nucleic acid molecule. Preferably, an "isolated" nucleic acid molecule is free of sequences (preferably protein-encoding sequences) which naturally flank the nucleic acid (*i.e.*, sequences located at the 5' and 3' ends of the nucleic acid) in the genomic DNA of the organism from which the  
30 nucleic acid is derived. For example, in various embodiments, the isolated nucleic acid molecule can contain less than about 5 kB, 4 kB, 3 kB, 2 kB, 1 kB, 0.5 kB or 0.1 kB of nucleotide sequences which naturally flank the nucleic acid molecule in genomic DNA

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of the cell from which the nucleic acid is derived. Moreover, an "isolated" nucleic acid molecule, such as a cDNA molecule, can be substantially free of other cellular material, or culture medium when produced by recombinant techniques, or substantially free of chemical precursors or other chemicals when chemically synthesized.

5       A nucleic acid molecule of the present invention, *e.g.*, a nucleic acid encoding a protein corresponding to a marker listed in Tables 1-4, can be isolated using standard molecular biology techniques and the sequence information described herein. Using all or a portion of such nucleic acid sequences, nucleic acid molecules of the invention can be isolated using standard hybridization and cloning techniques (*e.g.*, as described in  
10   Sambrook *et al.*, ed., *Molecular Cloning: A Laboratory Manual*, 2nd ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989).

      A process for identifying a larger fragment or the full-length coding sequence of a marker of the present invention is thus also provided. Any conventional recombinant DNA techniques applicable for isolating polynucleotides may be employed. One such  
15   method involves the 5'-RACE-PCR technique, in which the poly-A mRNA that contains the coding sequence of particular interest is first reverse transcribed with a 3'-primer comprising a sequence disclosed herein. The newly synthesized cDNA strand is then tagged with an anchor primer with a known sequence, which preferably contains a convenient cloning restriction site attached at the 5' end. The tagged cDNA is then  
20   amplified with the 3'-primer (or a nested primer sharing sequence homology to the internal sequences of the coding region) and the 5'-anchor primer. The amplification may be conducted under conditions of various levels of stringency to optimize the amplification specificity. 5'-RACE-PCR can be readily performed using commercial kits (available from, *e.g.*, BRL Life Technologies Inc., Clontech) according to the  
25   manufacturer's instructions.

      Isolating the complete coding sequence of a gene can also be carried out in a hybridization assay using a suitable probe. The probe preferably comprises at least 10 nucleotides, and more preferably exhibits sequence homology to the polynucleotides of the markers of the present invention. Other high throughput screens for cDNAs, such as  
30   those involving gene chip technology, can also be employed in obtaining the complete cDNA sequence.

In addition, databases exist that reduce the complexity of ESTs by assembling contiguous EST sequences into tentative genes. For example, TIGR has assembled human ESTs into a database called THC for tentative human consensus sequences. The THC database allows for a more definitive assignment compared to ESTs alone.

- 5 Software programs exist (TIGR assembler and TIGEM EST assembly machine and contig assembly program (see Huang, X . , 1996, *Genomes* 33:21-23)) that allow for assembling ESTs into contiguous sequences from any organism.

Alternatively, mRNA from a sample preparation is used to construct cDNA library in the ZAP Express vector following the procedure described in Velculescu *et al.*, 1997, *Science* 270:484. The ZAP Express cDNA synthesis kit (Stratagene) is used  
10 accordingly to the manufacturer's protocol. Plates containing 250 to 2000 plaques are hybridized as described in Rupert *et al.*, 1988, *Mol. Cell. Bio.* 8:3104 to oligonucleotide probes with the same conditions previously described for standard probes except that the hybridization temperature is reduced to a room temperature. Washes are performed in  
15 6X standard-saline-citrate 0.1% SDS for 30 minutes at room temperature. The probes are labeled with <sup>32</sup>P-ATP through use of T4 polynucleotide kinase.

A partial cDNA (3' fragment) can be isolated by 3' directed PCR reaction. This procedure is a modification of the protocol described in Polyak *et al.*, 1997, *Nature* 389:300. Briefly, the procedure uses SAGE tags in PCR reaction such that the resultant  
20 PCR product contains the SAGE tag of interest as well as additional cDNA, the length of which is defined by the position of the tag with respect to the 3' end of the cDNA. The cDNA product derived from such a transcript driven PCR reaction can be used for many applications.

RNA from a source to express the cDNA corresponding to a given tag is first  
25 converted to double-stranded cDNA using any standard cDNA protocol. Similar conditions used to generate cDNA for SAGE library construction can be employed except that a modified oligo-dT primer is used to derive the first strand synthesis. For example, the oligonucleotide of composition 5'-B-TCC GGC GCG CCG TTT TCC CAG TCA CGA(30)-3', contains a poly-T stretch at the 3' end for hybridization and  
30 priming from poly-A tails, an M13 priming site for use in subsequent PCR steps, a 5' Biotin label (B) for capture to streptavidin-coated magnetic beads, and an *Asc*I restriction endonuclease site for releasing the cDNA from the streptavidin-coated magnetic beads.

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Theoretically, any sufficiently-sized DNA region capable of hybridizing to a PCR primer can be used as well as any other 8 base pair recognizing endonuclease.

cDNA constructed utilizing this or similar modified oligo-dT primer is then processed as described in U.S. Patent No. 5,695,937 up until adapter ligation where only  
5 one adapter is ligated to the cDNA pool. After adapter ligation, the cDNA is released from the streptavidin-coated magnetic beads and is then used as a template for cDNA amplification.

Various PCR protocols can be employed using PCR priming sites within the 3' modified oligo-dT primer and the SAGE tag. The SAGE tag-derived PCR primer  
10 employed can be of varying length dictated by 5' extension of the tag into the adaptor sequence. cDNA products are now available for a variety of applications.

This technique can be further modified by: (1) altering the length and/or content of the modified oligo-dT primer; (2) ligating adaptors other than that previously employed within the SAGE protocol; (3) performing PCR from template retained on the  
15 streptavidin-coated magnetic beads; and (4) priming first strand cDNA synthesis with non-oligo-dT based primers.

Gene trapper technology can also be used. The reagents and manufacturer's instructions for this technology are commercially available from Life Technologies, Inc., Gaithersburg, Maryland. Briefly, a complex population of single-stranded phagemid  
20 DNA containing directional cDNA inserts is enriched for the target sequence by hybridization in solution to a biotinylated oligonucleotide probe complementary to the target sequence. The hybrids are captured on streptavidin-coated paramagnetic beads. A magnet retrieves the paramagnetic beads from the solution, leaving nonhybridized single-stranded DNAs behind. Subsequently, the captured single-stranded DNA target  
25 is released from the biotinylated oligonucleotide. After release, the cDNA clone is further enriched by using a nonbiotinylated target oligonucleotide to specifically prime conversion of the single-stranded DNA. Following transformation and plating, typically 20% to 100% of the colonies represent the cDNA clone of interest. To identify the desired cDNA clone, the colonies may be screened by colony hybridization using the  
30 <sup>32</sup>P-labeled oligonucleotide, or alternatively by DNA sequencing and alignment of all sequences obtained from numerous clones to determine a consensus sequence.

A nucleic acid molecule of the invention can be amplified using cDNA, mRNA, or genomic DNA as a template and appropriate oligonucleotide primers according to standard PCR amplification techniques. The nucleic acid so amplified can be cloned into an appropriate vector and characterized by DNA sequence analysis. Furthermore, 5 oligonucleotides corresponding to all or a portion of a nucleic acid molecule of the invention can be prepared by standard synthetic techniques, *e.g.*, using an automated DNA synthesizer.

In another preferred embodiment, an isolated nucleic acid molecule of the invention comprises a nucleic acid molecule which has a nucleotide sequence 10 complementary to the nucleotide sequence of a nucleic acid corresponding to a marker of the invention or to the nucleotide sequence of a nucleic acid encoding a protein which corresponds to a marker of the invention. A nucleic acid molecule which is complementary to a given nucleotide sequence is one which is sufficiently complementary to the given nucleotide sequence that it can hybridize to the given 15 nucleotide sequence thereby forming a stable duplex.

Moreover, a nucleic acid molecule of the invention can comprise only a portion of a nucleic acid sequence, wherein the full length nucleic acid sequence comprises a marker of the invention or which encodes a polypeptide corresponding to a marker of the invention. Such nucleic acids can be used, for example, as a probe or primer. The 20 probe/primer typically is used as one or more substantially purified oligonucleotides. The oligonucleotide typically comprises a region of nucleotide sequence that hybridizes under stringent conditions to at least about 7, preferably about 15, more preferably about 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, or 400 or more consecutive nucleotides of a nucleic acid of the invention.

25 Probes based on the sequence of a nucleic acid molecule of the invention can be used to detect transcripts or genomic sequences corresponding to one or more markers of the invention. The probe comprises a label group attached thereto, *e.g.*, a radioisotope, a fluorescent compound, an enzyme, or an enzyme co-factor. Such probes can be used as part of a diagnostic test kit for identifying cells or tissues which mis- 30 express the protein, such as by measuring levels of a nucleic acid molecule encoding the protein in a sample of cells from a subject, *e.g.*, detecting mRNA levels or determining whether a gene encoding the protein has been mutated or deleted.

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The invention further encompasses nucleic acid molecules that differ, due to degeneracy of the genetic code, from the nucleotide sequence of nucleic acids encoding a protein which corresponds to a marker of the invention, and thus encode the same protein.

5 In addition to the nucleotide sequences described in the Tables, it will be appreciated by those skilled in the art that DNA sequence polymorphisms that lead to changes in the amino acid sequence can exist within a population (*e.g.*, the human population). Such genetic polymorphisms can exist among individuals within a population due to natural allelic variation. An allele is one of a group of genes which  
10 occur alternatively at a given genetic locus. In addition, it will be appreciated that DNA polymorphisms that affect RNA expression levels can also exist that may affect the overall expression level of that gene (*e.g.*, by affecting regulation or degradation).

As used herein, the phrase "allelic variant" refers to a nucleotide sequence which occurs at a given locus or to a polypeptide encoded by the nucleotide sequence.

15 As used herein, the terms "gene" and "recombinant gene" refer to nucleic acid molecules comprising an open reading frame encoding a polypeptide corresponding to a marker of the invention. Such natural allelic variations can typically result in 0.1-0.5% variance in the nucleotide sequence of a given gene. Alternative alleles can be identified by sequencing the gene of interest in a number of different individuals. This can be  
20 readily carried out by using hybridization probes to identify the same genetic locus in a variety of individuals. Any and all such nucleotide variations and resulting amino acid polymorphisms or variations that are the result of natural allelic variation and that do not alter the functional activity are intended to be within the scope of the invention.

In another embodiment, an isolated nucleic acid molecule of the invention is at  
25 least 7, 15, 20, 25, 30, 40, 60, 80, 100, 150, 200, 250, 300, 350, 400, 450, 550, 650, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3500, 4000, 4500, or more nucleotides in length and hybridizes under stringent conditions to a nucleic acid corresponding to a marker of the invention or to a nucleic acid encoding a protein corresponding to a marker of the invention. As used herein, the term "hybridizes  
30 under stringent conditions" is intended to describe conditions for hybridization and washing under which nucleotide sequences at least 75% (80%, 85%, preferably 90%) identical to each other typically remain hybridized to each other. Such stringent

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conditions are known to those skilled in the art and can be found in sections 6.3.1-6.3.6 of *Current Protocols in Molecular Biology*, John Wiley & Sons, N.Y. (1989). A preferred, non-limiting example of stringent hybridization conditions for annealing two single-stranded DNA each of which is at least about 100 bases in length and/or for  
5 annealing a single-stranded DNA and a single-stranded RNA each of which is at least about 100 bases in length, are hybridization in 6X sodium chloride/sodium citrate (SSC) at about 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 50-65°C. Further preferred hybridization conditions are taught in Lockhart, *et al.*, *Nature Biotechnology*, Volume 14, 1996 August:1675-1680; Breslauer, *et al.*, *Proc. Natl. Acad. Sci. USA*, Volume 83, 1986 June: 3746-3750; Van Ness, *et al.*, *Nucleic Acids Research*,  
10 Volume 19, No. 19, 1991 September: 5143-5151; McGraw, *et al.*, *BioTechniques*, Volume 8, No. 6 1990: 674-678; and Milner, *et al.*, *Nature Biotechnology*, Volume 15, 1997 June: 537-541, all expressly incorporated by reference.

In addition to naturally-occurring allelic variants of a nucleic acid molecule of  
15 the invention that can exist in the population, the skilled artisan will further appreciate that sequence changes can be introduced by mutation thereby leading to changes in the amino acid sequence of the encoded protein, without altering the biological activity of the protein encoded thereby. For example, one can make nucleotide substitutions leading to amino acid substitutions at "non-essential" amino acid residues. A "non-  
20 essential" amino acid residue is a residue that can be altered from the wild-type sequence without altering the biological activity, whereas an "essential" amino acid residue is required for biological activity. For example, amino acid residues that are not conserved or only semi-conserved among homologs of various species may be non-essential for activity and thus would be likely targets for alteration. Alternatively, amino  
25 acid residues that are conserved among the homologs of various species (*e.g.*, murine and human) may be essential for activity and thus would not be likely targets for alteration.

Accordingly, another aspect of the invention pertains to nucleic acid molecules encoding a polypeptide of the invention that contain changes in amino acid residues that  
30 are not essential for activity. Such polypeptides differ in amino acid sequence from the naturally-occurring proteins which correspond to the markers of the invention, yet retain biological activity. In one embodiment, such a protein has an amino acid sequence that



is at least about 40% identical, 50%, 60%, 70%, 80%, 90%, 95%, or 98% identical to the amino acid sequence of one of the proteins which correspond to the markers of the invention.

An isolated nucleic acid molecule encoding a variant protein can be created by  
5 introducing one or more nucleotide substitutions, additions or deletions into the nucleotide sequence of nucleic acids of the invention, such that one or more amino acid residue substitutions, additions, or deletions are introduced into the encoded protein. Mutations can be introduced by standard techniques, such as site-directed mutagenesis and PCR-mediated mutagenesis. Preferably, conservative amino acid substitutions are  
10 made at one or more predicted non-essential amino acid residues. A "conservative amino acid substitution" is one in which the amino acid residue is replaced with an amino acid residue having a similar side chain. Families of amino acid residues having similar side chains have been defined in the art. These families include amino acids with basic side chains (*e.g.*, lysine, arginine, histidine), acidic side chains (*e.g.*, aspartic  
15 acid, glutamic acid), uncharged polar side chains (*e.g.*, glycine, asparagine, glutamine, serine, threonine, tyrosine, cysteine), non-polar side chains (*e.g.*, alanine, valine, leucine, isoleucine, proline, phenylalanine, methionine, tryptophan), beta-branched side chains (*e.g.*, threonine, valine, isoleucine) and aromatic side chains (*e.g.*, tyrosine, phenylalanine, tryptophan, histidine). Alternatively, mutations can be introduced  
20 randomly along all or part of the coding sequence, such as by saturation mutagenesis, and the resultant mutants can be screened for biological activity to identify mutants that retain activity. Following mutagenesis, the encoded protein can be expressed recombinantly and the activity of the protein can be determined.

The present invention encompasses antisense nucleic acid molecules, *i.e.*,  
25 molecules which are complementary to a sense nucleic acid of the invention, *e.g.*, complementary to the coding strand of a double-stranded cDNA molecule corresponding to a marker of the invention or complementary to an mRNA sequence corresponding to a marker of the invention. Accordingly, an antisense nucleic acid of the invention can hydrogen bond to (*i.e.* anneal with) a sense nucleic acid of the  
30 invention. The antisense nucleic acid can be complementary to an entire coding strand, or to only a portion thereof, *e.g.*, all or part of the protein coding region (or open reading frame). An antisense nucleic acid molecule can also be antisense to all or part of a non-

coding region of the coding strand of a nucleotide sequence encoding a polypeptide of the invention. The non-coding regions ("5' and 3' untranslated regions") are the 5' and 3' sequences which flank the coding region and are not translated into amino acids.

An antisense oligonucleotide can be, for example, about 5, 10, 15, 20, 25, 30, 35, 40, 45, or 50 or more nucleotides in length. An antisense nucleic acid of the invention can be constructed using chemical synthesis and enzymatic ligation reactions using procedures known in the art. For example, an antisense nucleic acid (*e.g.*, an antisense oligonucleotide) can be chemically synthesized using naturally occurring nucleotides or variously modified nucleotides designed to increase the biological stability of the molecules or to increase the physical stability of the duplex formed between the antisense and sense nucleic acids, *e.g.*, phosphorothioate derivatives and acridine substituted nucleotides can be used. Examples of modified nucleotides which can be used to generate the antisense nucleic acid include 5-fluorouracil, 5-bromouracil, 5-chlorouracil, 5-iodouracil, hypoxanthine, xanthine, 4-acetylcytosine, 5-(carboxyhydroxymethyl) uracil, 5-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluracil, dihydrouracil, beta-D-galactosylqueosine, inosine, N6-isopentenyladenine, 1-methylguanine, 1-methylinosine, 2,2-dimethylguanine, 2-methyladenine, 2-methylguanine, 3-methylcytosine, 5-methylcytosine, N6-adenine, 7-methylguanine, 5-methylaminomethyluracil, 5-methoxyaminomethyl-2-thiouracil, beta-D-mannosylqueosine, 5'-methoxycarboxymethyluracil, 5-methoxyuracil, 2-methylthio-N6-isopentenyladenine, uracil-5-oxyacetic acid (*v*), wybutoxosine, pseudouracil, queosine, 2-thiocytosine, 5-methyl-2-thiouracil, 2-thiouracil, 4-thiouracil, 5-methyluracil, uracil-5-oxyacetic acid methylester, uracil-5-oxyacetic acid (*v*), 5-methyl-2-thiouracil, 3-(3-amino-3-N-2-carboxypropyl) uracil, (*acp3*)*w*, and 2,6-diaminopurine. Alternatively, the antisense nucleic acid can be produced biologically using an expression vector into which a nucleic acid has been sub-cloned in an antisense orientation (*i.e.*, RNA transcribed from the inserted nucleic acid will be of an antisense orientation to a target nucleic acid of interest, described further in the following subsection).

The antisense nucleic acid molecules of the invention are typically administered to a subject or generated *in situ* such that they hybridize with or bind to cellular mRNA and/or genomic DNA encoding a polypeptide corresponding to a selected marker of the

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invention to thereby inhibit expression of the marker, *e.g.*, by inhibiting transcription and/or translation. The hybridization can be by conventional nucleotide complementarity to form a stable duplex, or, for example, in the case of an antisense nucleic acid molecule which binds to DNA duplexes, through specific interactions in the major groove of the double helix. Examples of a route of administration of antisense nucleic acid molecules of the invention includes direct injection at a tissue site or infusion of the antisense nucleic acid into a cervix-associated body fluid. Alternatively, antisense nucleic acid molecules can be modified to target selected cells and then administered systemically. For example, for systemic administration, antisense molecules can be modified such that they specifically bind to receptors or antigens expressed on a selected cell surface, *e.g.*, by linking the antisense nucleic acid molecules to peptides or antibodies which bind to cell surface receptors or antigens. The antisense nucleic acid molecules can also be delivered to cells using the vectors described herein. To achieve sufficient intracellular concentrations of the antisense molecules, vector constructs in which the antisense nucleic acid molecule is placed under the control of a strong pol II or pol III promoter are preferred.

An antisense nucleic acid molecule of the invention can be an  $\alpha$ -anomeric nucleic acid molecule. An  $\alpha$ -anomeric nucleic acid molecule forms specific double-stranded hybrids with complementary RNA in which, contrary to the usual  $\alpha$ -units, the strands run parallel to each other (Gaultier *et al.*, 1987, *Nucleic Acids Res.* 15:6625-6641). The antisense nucleic acid molecule can also comprise a 2'-O-methylribonucleotide (Inoue *et al.*, 1987, *Nucleic Acids Res.* 15:6131-6148) or a chimeric RNA-DNA analogue (Inoue *et al.*, 1987, *FEBS Lett.* 215:327-330).

The invention also encompasses ribozymes. Ribozymes are catalytic RNA molecules with ribonuclease activity which are capable of cleaving a single-stranded nucleic acid, such as an mRNA, to which they have a complementary region. Thus, ribozymes (*e.g.*, hammerhead ribozymes as described in Haselhoff and Gerlach, 1988, *Nature* 334:585-591) can be used to catalytically cleave mRNA transcripts to thereby inhibit translation of the protein encoded by the mRNA. A ribozyme having specificity for a nucleic acid molecule encoding a polypeptide corresponding to a marker of the invention can be designed based upon the nucleotide sequence of a cDNA corresponding to the marker. For example, a derivative of a *Tetrahymena* L-19 IVS

RNA can be constructed in which the nucleotide sequence of the active site is complementary to the nucleotide sequence to be cleaved (see Cech *et al.* U.S. Patent No. 4,987,071; and Cech *et al.* U.S. Patent No. 5,116,742). Alternatively, an mRNA encoding a polypeptide of the invention can be used to select a catalytic RNA having a specific ribonuclease activity from a pool of RNA molecules (see, *e.g.*, Bartel and Szostak, 1993, *Science* 261:1411-1418).

The invention also encompasses nucleic acid molecules which form triple helical structures. For example, expression of a polypeptide of the invention can be inhibited by targeting nucleotide sequences complementary to the regulatory region of the gene encoding the polypeptide (*e.g.*, the promoter and/or enhancer) to form triple helical structures that prevent transcription of the gene in target cells. See generally Helene (1991) *Anticancer Drug Des.* 6(6):569-84; Helene (1992) *Ann. N.Y. Acad. Sci.* 660:27-36; and Maher (1992) *Bioassays* 14(12):807-15.

In various embodiments, the nucleic acid molecules of the invention can be modified at the base moiety, sugar moiety or phosphate backbone to improve, *e.g.*, the stability, hybridization, or solubility of the molecule. For example, the deoxyribose phosphate backbone of the nucleic acids can be modified to generate peptide nucleic acids (see Hyrup *et al.*, 1996, *Bioorganic & Medicinal Chemistry* 4(1): 5-23). As used herein, the terms "peptide nucleic acids" or "PNAs" refer to nucleic acid mimics, *e.g.*, DNA mimics, in which the deoxyribose phosphate backbone is replaced by a pseudopeptide backbone and only the four natural nucleobases are retained. The neutral backbone of PNAs has been shown to allow for specific hybridization to DNA and RNA under conditions of low ionic strength. The synthesis of PNA oligomers can be performed using standard solid phase peptide synthesis protocols as described in Hyrup *et al.* (1996), *supra*; Perry-O'Keefe *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:14670-675.

PNAs can be used in therapeutic and diagnostic applications. For example, PNAs can be used as antisense or antigene agents for sequence-specific modulation of gene expression by, *e.g.*, inducing transcription or translation arrest or inhibiting replication. PNAs can also be used, *e.g.*, in the analysis of single base pair mutations in a gene by, *e.g.*, PNA directed PCR clamping; as artificial restriction enzymes when used in combination with other enzymes, *e.g.*, S1 nucleases (Hyrup (1996), *supra*; or as

probes or primers for DNA sequence and hybridization (Hyrup, 1996, *supra*; Perry-O'Keefe *et al.*, 1996, *Proc. Natl. Acad. Sci. USA* 93:14670-675).

In another embodiment, PNAs can be modified, *e.g.*, to enhance their stability or cellular uptake, by attaching lipophilic or other helper groups to PNA, by the formation  
5 of PNA-DNA chimeras, or by the use of liposomes or other techniques of drug delivery known in the art. For example, PNA-DNA chimeras can be generated which can combine the advantageous properties of PNA and DNA. Such chimeras allow DNA recognition enzymes, *e.g.*, RNASE H and DNA polymerases, to interact with the DNA portion while the PNA portion would provide high binding affinity and specificity.  
10 PNA-DNA chimeras can be linked using linkers of appropriate lengths selected in terms of base stacking, number of bonds between the nucleobases, and orientation (Hyrup, 1996, *supra*). The synthesis of PNA-DNA chimeras can be performed as described in Hyrup (1996), *supra*, and Finn *et al.* (1996) *Nucleic Acids Res.* 24(17):3357-63. For example, a DNA chain can be synthesized on a solid support using standard  
15 phosphoramidite coupling chemistry and modified nucleoside analogs. Compounds such as 5'-(4-methoxytrityl)amino-5'-deoxy-thymidine phosphoramidite can be used as a link between the PNA and the 5' end of DNA (Mag *et al.*, 1989, *Nucleic Acids Res.* 17:5973-88). PNA monomers are then coupled in a step-wise manner to produce a chimeric molecule with a 5' PNA segment and a 3' DNA segment (Finn *et al.*, 1996,  
20 *Nucleic Acids Res.* 24(17):3357-63). Alternatively, chimeric molecules can be synthesized with a 5' DNA segment and a 3' PNA segment (Peterser *et al.*, 1975, *Bioorganic Med. Chem. Lett.* 5:1119-11124).

In other embodiments, the oligonucleotide can include other appended groups such as peptides (*e.g.*, for targeting host cell receptors *in vivo*), or agents facilitating  
25 transport across the cell membrane (see, *e.g.*, Letsinger *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:6553-6556; Lemaitre *et al.*, 1987, *Proc. Natl. Acad. Sci. USA* 84:648-652; PCT Publication No. WO 88/09810) or the blood-brain barrier (see, *e.g.*, PCT Publication No. WO 89/10134). In addition, oligonucleotides can be modified with hybridization-triggered cleavage agents (see, *e.g.*, Krol *et al.*, 1988, *Bio/Techniques*  
30 6:958-976) or intercalating agents (see, *e.g.*, Zon, 1988, *Pharm. Res.* 5:539-549). To this end, the oligonucleotide can be conjugated to another molecule, *e.g.*, a peptide,

hybridization triggered cross-linking agent, transport agent, hybridization-triggered cleavage agent, etc.

The invention also includes molecular beacon nucleic acids having at least one region which is complementary to a nucleic acid of the invention, such that the molecular beacon is useful for quantitating the presence of the nucleic acid of the invention in a sample. A "molecular beacon" nucleic acid is a nucleic acid comprising a pair of complementary regions and having a fluorophore and a fluorescent quencher associated therewith. The fluorophore and quencher are associated with different portions of the nucleic acid in such an orientation that when the complementary regions are annealed with one another, fluorescence of the fluorophore is quenched by the quencher. When the complementary regions of the nucleic acid are not annealed with one another, fluorescence of the fluorophore is quenched to a lesser degree. Molecular beacon nucleic acids are described, for example, in U.S. Patent 5,876,930.

## 15 II. Isolated Proteins and Antibodies

One aspect of the invention pertains to novel isolated proteins which correspond to individual markers of the invention, and biologically active portions thereof, as well as polypeptide fragments suitable for use as immunogens to raise antibodies directed against a polypeptide corresponding to a marker of the invention. In one embodiment, the native polypeptide corresponding to a marker can be isolated from cells or tissue sources by an appropriate purification scheme using standard protein purification techniques. In another embodiment, polypeptides corresponding to a marker of the invention are produced by recombinant DNA techniques. Alternative to recombinant expression, a polypeptide corresponding to a marker of the invention can be synthesized chemically using standard peptide synthesis techniques.

An "isolated" or "purified" protein or biologically active portion thereof is substantially free of cellular material or other contaminating proteins from the cell or tissue source from which the protein is derived, or substantially free of chemical precursors or other chemicals when chemically synthesized. The language "substantially free of cellular material" includes preparations of protein in which the protein is separated from cellular components of the cells from which it is isolated or recombinantly produced. Thus, protein that is substantially free of cellular material

includes preparations of protein having less than about 30%, 20%, 10%, or 5% (by dry weight) of heterologous protein (also referred to herein as a "contaminating protein"). When the protein or biologically active portion thereof is recombinantly produced, it is also preferably substantially free of culture medium, *i.e.*, culture medium represents less than about 20%, 10%, or 5% of the volume of the protein preparation. When the protein is produced by chemical synthesis, it is preferably substantially free of chemical precursors or other chemicals, *i.e.*, it is separated from chemical precursors or other chemicals which are involved in the synthesis of the protein. Accordingly such preparations of the protein have less than about 30%, 20%, 10%, 5% (by dry weight) of chemical precursors or compounds other than the polypeptide of interest.

Biologically active portions of a polypeptide corresponding to a marker of the invention include polypeptides comprising amino acid sequences sufficiently identical to or derived from the amino acid sequence of the protein corresponding to the marker (*e.g.*, the amino acid sequence listed in the GenBank and IMAGE Consortium database records described herein), which include fewer amino acids than the full length protein, and exhibit at least one activity of the corresponding full-length protein. Typically, biologically active portions comprise a domain or motif with at least one activity of the corresponding protein. A biologically active portion of a protein of the invention can be a polypeptide which is, for example, 10, 25, 50, 100 or more amino acids in length. Moreover, other biologically active portions, in which other regions of the protein are deleted, can be prepared by recombinant techniques and evaluated for one or more of the functional activities of the native form of a polypeptide of the invention.

Preferred polypeptides are encoded by the nucleotide sequences in Tables 1-4. Other useful proteins are substantially identical (*e.g.*, at least about 40%, preferably 50%, 60%, 70%, 80%, 90%, 95%, or 99%) to one of these sequences and retain the functional activity of the protein of the corresponding naturally-occurring protein yet differ in amino acid sequence due to natural allelic variation or mutagenesis.

To determine the percent identity of two amino acid sequences or of two nucleic acids, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of a first amino acid or nucleic acid sequence for optimal alignment with a second amino or nucleic acid sequence). The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then

compared. When a position in the first sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the second sequence, then the molecules are identical at that position. The percent identity between the two sequences is a function of the number of identical positions shared by the sequences (*i.e.*, % identity = # of identical positions/total # of positions (*e.g.*, overlapping positions)  $\times 100$ ).  
5 In one embodiment the two sequences are the same length.

The determination of percent identity between two sequences can be accomplished using a mathematical algorithm. A preferred, non-limiting example of a mathematical algorithm utilized for the comparison of two sequences is the algorithm of  
10 Karlin and Altschul (1990) *Proc. Natl. Acad. Sci. USA* 87:2264-2268, modified as in Karlin and Altschul (1993) *Proc. Natl. Acad. Sci. USA* 90:5873-5877. Such an algorithm is incorporated into the NBLAST and XBLAST programs of Altschul, *et al.* (1990) *J. Mol. Biol.* 215:403-410. BLAST nucleotide searches can be performed with the NBLAST program, score = 100, wordlength = 12 to obtain nucleotide sequences  
15 homologous to a nucleic acid molecules of the invention. BLAST protein searches can be performed with the XBLAST program, score = 50, wordlength = 3 to obtain amino acid sequences homologous to a protein molecules of the invention. To obtain gapped alignments for comparison purposes, Gapped BLAST can be utilized as described in Altschul *et al.* (1997) *Nucleic Acids Res.* 25:3389-3402. Alternatively, PSI-Blast can be  
20 used to perform an iterated search which detects distant relationships between molecules. When utilizing BLAST, Gapped BLAST, and PSI-Blast programs, the default parameters of the respective programs (*e.g.*, XBLAST and NBLAST) can be used. See <http://www.ncbi.nlm.nih.gov>. Another preferred, non-limiting example of a mathematical algorithm utilized for the comparison of sequences is the algorithm of  
25 Myers and Miller, (1988) *CABIOS* 4:11-17. Such an algorithm is incorporated into the ALIGN program (version 2.0) which is part of the GCG sequence alignment software package. When utilizing the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4 can be used. Yet another useful algorithm for identifying regions of local sequence similarity  
30 and alignment is the FASTA algorithm as described in Pearson and Lipman (1988) *Proc. Natl. Acad. Sci. USA* 85:2444-2448. When using the FASTA algorithm for



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comparing nucleotide or amino acid sequences, a PAM120 weight residue table can, for example, be used with a  $k$ -tuple value of 2.

The percent identity between two sequences can be determined using techniques similar to those described above, with or without allowing gaps. In calculating percent  
5 identity, only exact matches are counted.

The invention also provides chimeric or fusion proteins corresponding to a marker of the invention. As used herein, a "chimeric protein" or "fusion protein" comprises all or part (preferably a biologically active part) of a polypeptide corresponding to a marker of the invention operably linked to a heterologous  
10 polypeptide (*i.e.*, a polypeptide other than the polypeptide corresponding to the marker). Within the fusion protein, the term "operably linked" is intended to indicate that the polypeptide of the invention and the heterologous polypeptide are fused in-frame to each other. The heterologous polypeptide can be fused to the amino-terminus or the carboxyl-terminus of the polypeptide of the invention.

15 One useful fusion protein is a GST fusion protein in which a polypeptide corresponding to a marker of the invention is fused to the carboxyl terminus of GST sequences. Such fusion proteins can facilitate the purification of a recombinant polypeptide of the invention.

In another embodiment, the fusion protein contains a heterologous signal  
20 sequence at its amino terminus. For example, the native signal sequence of a polypeptide corresponding to a marker of the invention can be removed and replaced with a signal sequence from another protein. For example, the gp67 secretory sequence of the baculovirus envelope protein can be used as a heterologous signal sequence (Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, NY,  
25 1992). Other examples of eukaryotic heterologous signal sequences include the secretory sequences of melittin and human placental alkaline phosphatase (Stratagene; La Jolla, California). In yet another example, useful prokaryotic heterologous signal sequences include the *phoA* secretory signal (Sambrook *et al.*, *supra*) and the protein A secretory signal (Pharmacia Biotech; Piscataway, New Jersey).

30 In yet another embodiment, the fusion protein is an immunoglobulin fusion protein in which all or part of a polypeptide corresponding to a marker of the invention is fused to sequences derived from a member of the immunoglobulin protein family.

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The immunoglobulin fusion proteins of the invention can be incorporated into pharmaceutical compositions and administered to a subject to inhibit an interaction between a ligand (soluble or membrane-bound) and a protein on the surface of a cell (receptor), to thereby suppress signal transduction *in vivo*. The immunoglobulin fusion protein can be used to affect the bioavailability of a cognate ligand of a polypeptide of the invention. Inhibition of ligand/receptor interaction can be useful therapeutically, both for treating proliferative and differentiative disorders and for modulating (*e.g.* promoting or inhibiting) cell survival. Moreover, the immunoglobulin fusion proteins of the invention can be used as immunogens to produce antibodies directed against a polypeptide of the invention in a subject, to purify ligands and in screening assays to identify molecules which inhibit the interaction of receptors with ligands.

Chimeric and fusion proteins of the invention can be produced by standard recombinant DNA techniques. In another embodiment, the fusion gene can be synthesized by conventional techniques including automated DNA synthesizers. Alternatively, PCR amplification of gene fragments can be carried out using anchor primers which give rise to complementary overhangs between two consecutive gene fragments which can subsequently be annealed and re-amplified to generate a chimeric gene sequence (see, *e.g.*, Ausubel *et al.*, *supra*). Moreover, many expression vectors are commercially available that already encode a fusion moiety (*e.g.*, a GST polypeptide). A nucleic acid encoding a polypeptide of the invention can be cloned into such an expression vector such that the fusion moiety is linked in-frame to the polypeptide of the invention.

A signal sequence can be used to facilitate secretion and isolation of the secreted protein or other proteins of interest. Signal sequences are typically characterized by a core of hydrophobic amino acids which are generally cleaved from the mature protein during secretion in one or more cleavage events. Such signal peptides contain processing sites that allow cleavage of the signal sequence from the mature proteins as they pass through the secretory pathway. Thus, the invention pertains to the described polypeptides having a signal sequence, as well as to polypeptides from which the signal sequence has been proteolytically cleaved (*i.e.*, the cleavage products). In one embodiment, a nucleic acid sequence encoding a signal sequence can be operably linked in an expression vector to a protein of interest, such as a protein which is ordinarily not

secreted or is otherwise difficult to isolate. The signal sequence directs secretion of the protein, such as from a eukaryotic host into which the expression vector is transformed, and the signal sequence is subsequently or concurrently cleaved. The protein can then be readily purified from the extracellular medium by art recognized methods.

- 5 Alternatively, the signal sequence can be linked to the protein of interest using a sequence which facilitates purification, such as with a GST domain.

The present invention also pertains to variants of the polypeptides corresponding to individual markers of the invention. Such variants have an altered amino acid sequence which can function as either agonists (mimetics) or as antagonists. Variants  
10 can be generated by mutagenesis, *e.g.*, discrete point mutation or truncation. An agonist can retain substantially the same, or a subset, of the biological activities of the naturally occurring form of the protein. An antagonist of a protein can inhibit one or more of the activities of the naturally occurring form of the protein by, for example, competitively binding to a downstream or upstream member of a cellular signaling cascade which  
15 includes the protein of interest. Thus, specific biological effects can be elicited by treatment with a variant of limited function. Treatment of a subject with a variant having a subset of the biological activities of the naturally occurring form of the protein can have fewer side effects in a subject relative to treatment with the naturally occurring form of the protein.

20 Variants of a protein of the invention which function as either agonists (mimetics) or as antagonists can be identified by screening combinatorial libraries of mutants, *e.g.*, truncation mutants, of the protein of the invention for agonist or antagonist activity. In one embodiment, a variegated library of variants is generated by combinatorial mutagenesis at the nucleic acid level and is encoded by a variegated gene  
25 library. A variegated library of variants can be produced by, for example, enzymatically ligating a mixture of synthetic oligonucleotides into gene sequences such that a degenerate set of potential protein sequences is expressible as individual polypeptides, or alternatively, as a set of larger fusion proteins (*e.g.*, for phage display). There are a variety of methods which can be used to produce libraries of potential variants of the  
30 polypeptides of the invention from a degenerate oligonucleotide sequence. Methods for synthesizing degenerate oligonucleotides are known in the art (see, *e.g.*, Narang, 1983,

*Tetrahedron* 39:3; Itakura *et al.*, 1984, *Annu. Rev. Biochem.* 53:323; Itakura *et al.*, 1984, *Science* 198:1056; Ike *et al.*, 1983 *Nucleic Acid Res.* 11:477).

In addition, libraries of fragments of the coding sequence of a polypeptide corresponding to a marker of the invention can be used to generate a variegated population of polypeptides for screening and subsequent selection of variants. For example, a library of coding sequence fragments can be generated by treating a double stranded PCR fragment of the coding sequence of interest with a nuclease under conditions wherein nicking occurs only about once per molecule, denaturing the double stranded DNA, renaturing the DNA to form double stranded DNA which can include sense/antisense pairs from different nicked products, removing single stranded portions from reformed duplexes by treatment with S1 nuclease, and ligating the resulting fragment library into an expression vector. By this method, an expression library can be derived which encodes amino terminal and internal fragments of various sizes of the protein of interest.

Several techniques are known in the art for screening gene products of combinatorial libraries made by point mutations or truncation, and for screening cDNA libraries for gene products having a selected property. The most widely used techniques, which are amenable to high through-put analysis, for screening large gene libraries typically include cloning the gene library into replicable expression vectors, transforming appropriate cells with the resulting library of vectors, and expressing the combinatorial genes under conditions in which detection of a desired activity facilitates isolation of the vector encoding the gene whose product was detected. Recursive ensemble mutagenesis (REM), a technique which enhances the frequency of functional mutants in the libraries, can be used in combination with the screening assays to identify variants of a protein of the invention (Arkin and Yourvan, 1992, *Proc. Natl. Acad. Sci. USA* 89:7811-7815; Delgrave *et al.*, 1993, *Protein Engineering* 6(3):327- 331).

An isolated polypeptide corresponding to a marker of the invention, or a fragment thereof, can be used as an immunogen to generate antibodies using standard techniques for polyclonal and monoclonal antibody preparation. The full-length polypeptide or protein can be used or, alternatively, the invention provides antigenic peptide fragments for use as immunogens. The antigenic peptide of a protein of the invention comprises at least 8 (preferably 10, 15, 20, or 30 or more) amino acid residues

of the amino acid sequence of one of the polypeptides of the invention, and encompasses an epitope of the protein such that an antibody raised against the peptide forms a specific immune complex with a marker of the invention to which the protein corresponds.

Preferred epitopes encompassed by the antigenic peptide are regions that are located on  
5 the surface of the protein, *e.g.*, hydrophilic regions. Hydrophobicity sequence analysis, hydrophilicity sequence analysis, or similar analyses can be used to identify hydrophilic regions.

An immunogen typically is used to prepare antibodies by immunizing a suitable  
(*i.e.* immunocompetent) subject such as a rabbit, goat, mouse, or other mammal or  
10 vertebrate. An appropriate immunogenic preparation can contain, for example, recombinantly-expressed or chemically-synthesized polypeptide. The preparation can further include an adjuvant, such as Freund's complete or incomplete adjuvant, or a similar immunostimulatory agent.

Accordingly, another aspect of the invention pertains to antibodies directed  
15 against a polypeptide of the invention. The terms "antibody" and "antibody substance" as used interchangeably herein refer to immunoglobulin molecules and immunologically active portions of immunoglobulin molecules, *i.e.*, molecules that contain an antigen binding site which specifically binds an antigen, such as a polypeptide of the invention, *e.g.*, an epitope of a polypeptide of the invention. A molecule which specifically binds  
20 to a given polypeptide of the invention is a molecule which binds the polypeptide, but does not substantially bind other molecules in a sample, *e.g.*, a biological sample, which naturally contains the polypeptide. Examples of immunologically active portions of immunoglobulin molecules include F(ab) and F(ab')<sub>2</sub> fragments which can be generated by treating the antibody with an enzyme such as pepsin. The invention provides  
25 polyclonal and monoclonal antibodies. The term "monoclonal antibody" or "monoclonal antibody composition", as used herein, refers to a population of antibody molecules that contain only one species of an antigen binding site capable of immunoreacting with a particular epitope.

Polyclonal antibodies can be prepared as described above by immunizing a  
30 suitable subject with a polypeptide of the invention as an immunogen. Preferred polyclonal antibody compositions are ones that have been selected for antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred

polyclonal antibody preparations are ones that contain only antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred immunogen compositions are those that contain no other human proteins such as, for example, immunogen compositions made using a non-human host cell for recombinant expression  
5 of a polypeptide of the invention. In such a manner, the only human epitope or epitopes recognized by the resulting antibody compositions raised against this immunogen will be present as part of a polypeptide or polypeptides of the invention.

The antibody titer in the immunized subject can be monitored over time by standard techniques, such as with an enzyme linked immunosorbent assay (ELISA)  
10 using immobilized polypeptide. If desired, the antibody molecules can be harvested or isolated from the subject (*e.g.*, from the blood or serum of the subject) and further purified by well-known techniques, such as protein A chromatography to obtain the IgG fraction. Alternatively, antibodies specific for a protein or polypeptide of the invention can be selected or (*e.g.*, partially purified) or purified by, *e.g.*, affinity chromatography.  
15 For example, a recombinantly expressed and purified (or partially purified) protein of the invention is produced as described herein, and covalently or non-covalently coupled to a solid support such as, for example, a chromatography column. The column can then be used to affinity purify antibodies specific for the proteins of the invention from a sample containing antibodies directed against a large number of different epitopes,  
20 thereby generating a substantially purified antibody composition, *i.e.*, one that is substantially free of contaminating antibodies. By a substantially purified antibody composition is meant, in this context, that the antibody sample contains at most only 30% (by dry weight) of contaminating antibodies directed against epitopes other than those of the desired protein or polypeptide of the invention, and preferably at most 20%,  
25 yet more preferably at most 10%, and most preferably at most 5% (by dry weight) of the sample is contaminating antibodies. A purified antibody composition means that at least 99% of the antibodies in the composition are directed against the desired protein or polypeptide of the invention.

At an appropriate time after immunization, *e.g.*, when the specific antibody titers  
30 are highest, antibody-producing cells can be obtained from the subject and used to prepare monoclonal antibodies by standard techniques, such as the hybridoma technique originally described by Kohler and Milstein (1975) *Nature* 256:495-497, the human B

cell hybridoma technique (see Kozbor *et al.*, 1983, *Immunol. Today* 4:72), the EBV-hybridoma technique (see Cole *et al.*, pp. 77-96 In *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, Inc., 1985) or trioma techniques. The technology for producing hybridomas is well known (see generally *Current Protocols in Immunology*, Coligan *et al.* ed., John Wiley & Sons, New York, 1994). Hybridoma cells producing a monoclonal antibody of the invention are detected by screening the hybridoma culture supernatants for antibodies that bind the polypeptide of interest, *e.g.*, using a standard ELISA assay.

Alternative to preparing monoclonal antibody-secreting hybridomas, a monoclonal antibody directed against a polypeptide of the invention can be identified and isolated by screening a recombinant combinatorial immunoglobulin library (*e.g.*, an antibody phage display library) with the polypeptide of interest. Kits for generating and screening phage display libraries are commercially available (*e.g.*, the Pharmacia *Recombinant Phage Antibody System*, Catalog No. 27-9400-01; and the Stratagene *SurfZAP Phage Display Kit*, Catalog No. 240612). Additionally, examples of methods and reagents particularly amenable for use in generating and screening antibody display library can be found in, for example, U.S. Patent No. 5,223,409; PCT Publication No. WO 92/18619; PCT Publication No. WO 91/17271; PCT Publication No. WO 92/20791; PCT Publication No. WO 92/15679; PCT Publication No. WO 93/01288; PCT Publication No. WO 92/01047; PCT Publication No. WO 92/09690; PCT Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology* 9:1370-1372; Hay *et al.* (1992) *Hum. Antibod. Hybridomas* 3:81-85; Huse *et al.* (1989) *Science* 246:1275-1281; Griffiths *et al.* (1993) *EMBO J.* 12:725-734.

Additionally, recombinant antibodies, such as chimeric and humanized monoclonal antibodies, comprising both human and non-human portions, which can be made using standard recombinant DNA techniques, are within the scope of the invention. A chimeric antibody is a molecule in which different portions are derived from different animal species, such as those having a variable region derived from a murine mAb and a human immunoglobulin constant region. (See, *e.g.*, Cabilly *et al.*, U.S. Patent No. 4,816,567; and Boss *et al.*, U.S. Patent No. 4,816,397, which are incorporated herein by reference in their entirety.) Humanized antibodies are antibody molecules from non-human species having one or more complementarily determining

regions (CDRs) from the non-human species and a framework region from a human immunoglobulin molecule. (See, e.g., Queen, U.S. Patent No. 5,585,089, which is incorporated herein by reference in its entirety.) Such chimeric and humanized monoclonal antibodies can be produced by recombinant DNA techniques known in the art, for example using methods described in PCT Publication No. WO 87/02671; European Patent Application 184,187; European Patent Application 171,496; European Patent Application 173,494; PCT Publication No. WO 86/01533; U.S. Patent No. 4,816,567; European Patent Application 125,023; Better *et al.* (1988) *Science* 240:1041-1043; Liu *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:3439-3443; Liu *et al.* (1987) *J. Immunol.* 139:3521-3526; Sun *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:214-218; Nishimura *et al.* (1987) *Cancer Res.* 47:999-1005; Wood *et al.* (1985) *Nature* 314:446-449; and Shaw *et al.* (1988) *J. Natl. Cancer Inst.* 80:1553-1559; Morrison (1985) *Science* 229:1202-1207; Oi *et al.* (1986) *Bio/Techniques* 4:214; U.S. Patent 5,225,539; Jones *et al.* (1986) *Nature* 321:552-525; Verhoeyan *et al.* (1988) *Science* 239:1534; and Beidler *et al.* (1988) *J. Immunol.* 141:4053-4060.

Antibodies of the invention may be used as therapeutic agents in treating cancers. In a preferred embodiment, completely human antibodies of the invention are used for therapeutic treatment of human cancer patients, particularly those having cervical cancer. Such antibodies can be produced, for example, using transgenic mice which are incapable of expressing endogenous immunoglobulin heavy and light chain genes, but which can express human heavy and light chain genes. The transgenic mice are immunized in the normal fashion with a selected antigen, e.g., all or a portion of a polypeptide corresponding to a marker of the invention. Monoclonal antibodies directed against the antigen can be obtained using conventional hybridoma technology. The human immunoglobulin transgenes harbored by the transgenic mice rearrange during B cell differentiation, and subsequently undergo class switching and somatic mutation. Thus, using such a technique, it is possible to produce therapeutically useful IgG, IgA and IgE antibodies. For an overview of this technology for producing human antibodies, see Lonberg and Huszar (1995) *Int. Rev. Immunol.* 13:65-93). For a detailed discussion of this technology for producing human antibodies and human monoclonal antibodies and protocols for producing such antibodies, see, e.g., U.S. Patent 5,625,126; U.S. Patent 5,633,425; U.S. Patent 5,569,825; U.S. Patent 5,661,016; and U.S. Patent



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5,545,806. In addition, companies such as Abgenix, Inc. (Freemont, CA), can be engaged to provide human antibodies directed against a selected antigen using technology similar to that described above.

Completely human antibodies which recognize a selected epitope can be generated using a technique referred to as "guided selection." In this approach a selected non-human monoclonal antibody, *e.g.*, a murine antibody, is used to guide the selection of a completely human antibody recognizing the same epitope (Jespers *et al.*, 1994, *Bio/technology* 12:899-903).

An antibody directed against a polypeptide corresponding to a marker of the invention (*e.g.*, a monoclonal antibody) can be used to isolate the polypeptide by standard techniques, such as affinity chromatography or immunoprecipitation. Moreover, such an antibody can be used to detect the marker (*e.g.*, in a cellular lysate or cell supernatant) in order to evaluate the level and pattern of expression of the marker. The antibodies can also be used diagnostically to monitor protein levels in tissues or body fluids (*e.g.* in an ovary-associated body fluid) as part of a clinical testing procedure, *e.g.*, to, for example, determine the efficacy of a given treatment regimen. Detection can be facilitated by coupling the antibody to a detectable substance. Examples of detectable substances include various enzymes, prosthetic groups, fluorescent materials, luminescent materials, bioluminescent materials, and radioactive materials. Examples of suitable enzymes include horseradish peroxidase, alkaline phosphatase,  $\beta$ -galactosidase, or acetylcholinesterase; examples of suitable prosthetic group complexes include streptavidin/biotin and avidin/biotin; examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate, rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or phycoerythrin; an example of a luminescent material includes luminol; examples of bioluminescent materials include luciferase, luciferin, and aequorin, and examples of suitable radioactive material include  $^{125}\text{I}$ ,  $^{131}\text{I}$ ,  $^{35}\text{S}$  or  $^3\text{H}$ .

Further, an antibody (or fragment thereof) can be conjugated to a therapeutic moiety such as a cytotoxin, a therapeutic agent or a radioactive metal ion. A cytotoxin or cytotoxic agent includes any agent that is detrimental to cells. Examples include taxol, cytochalasin B, gramicidin D, ethidium bromide, emetine, mitomycin, etoposide, tenoposide, vincristine, vinblastine, colchicin, doxorubicin, daunorubicin, dihydroxy

anthracin dione, mitoxantrone, mithramycin, actinomycin D, 1-dehydrotestosterone, glucocorticoids, procaine, tetracaine, lidocaine, propranolol, and puromycin and analogs or homologs thereof. Therapeutic agents include, but are not limited to, antimetabolites (*e.g.*, methotrexate, 6-mercaptopurine, 6-thioguanine, cytarabine, 5-fluorouracil decarbazine), alkylating agents (*e.g.*, mechlorethamine, thioepa chlorambucil, melphalan, carmustine (BSNU) and lomustine (CCNU), cyclophosphamide, busulfan, dibromomannitol, streptozotocin, mitomycin C, and cis-dichlorodiamine platinum (II) (DDP) cisplatin), anthracyclines (*e.g.*, daunorubicin (formerly daunomycin) and doxorubicin), antibiotics (*e.g.*, dactinomycin (formerly actinomycin), bleomycin, mithramycin, and anthramycin (AMC)), and anti-mitotic agents (*e.g.*, vincristine and vinblastine).

The conjugates of the invention can be used for modifying a given biological response, the drug moiety is not to be construed as limited to classical chemical therapeutic agents. For example, the drug moiety may be a protein or polypeptide possessing a desired biological activity. Such proteins may include, for example, a toxin such as abrin, ricin A, pseudomonas exotoxin, or diphtheria toxin; a protein such as tumor necrosis factor, .alpha.-interferon, .beta.-interferon, nerve growth factor, platelet derived growth factor, tissue plasminogen activator; or, biological response modifiers such as, for example, lymphokines, interleukin-1 ("IL-1"), interleukin-2 ("IL-2"), interleukin-6 ("IL-6"), granulocyte macrophage colony stimulating factor ("GM-CSF"), granulocyte colony stimulating factor ("G-CSF"), or other growth factors.

Techniques for conjugating such therapeutic moiety to antibodies are well known, see, *e.g.*, Arnon et al., "Monoclonal Antibodies For Immunotargeting Of Drugs In Cancer Therapy", in *Monoclonal Antibodies And Cancer Therapy*, Reisfeld et al. (eds.), pp. 243-56 (Alan R. Liss, Inc. 1985); Hellstrom et al., "Antibodies For Drug Delivery", in *Controlled Drug Delivery* (2nd Ed.), Robinson et al. (eds.), pp. 623-53 (Marcel Dekker, Inc. 1987); Thorpe, "Antibody Carriers Of Cytotoxic Agents In Cancer Therapy: A Review", in *Monoclonal Antibodies '84: Biological And Clinical Applications*, Pinchera et al. (eds.), pp. 475-506 (1985); "Analysis, Results, And Future Prospective Of The Therapeutic Use Of Radiolabeled Antibody In Cancer Therapy", in *Monoclonal Antibodies For Cancer Detection And Therapy*, Baldwin et al. (eds.), pp.

303-16 (Academic Press 1985), and Thorpe et al., "The Preparation And Cytotoxic Properties Of Antibody-Toxin Conjugates", Immunol. Rev., 62:119-58 (1982).

Alternatively, an antibody can be conjugated to a second antibody to form an antibody heteroconjugate as described by Segal in U.S. Patent No. 4,676,980.

5       Accordingly, in one aspect, the invention provides substantially purified antibodies or fragments thereof, and non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a  
10   fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is  
15   encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. In various embodiments, the substantially purified antibodies of the invention, or fragments thereof, can be human, non-human, chimeric and/or  
20   humanized antibodies.

In another aspect, the invention provides non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of: the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the present  
25   invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence  
30   which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing

in 0.2 X SSC, 0.1% SDS at 65°C. Such non-human antibodies can be goat, mouse, sheep, horse, chicken, rabbit, or rat antibodies. Alternatively, the non-human antibodies of the invention can be chimeric and/or humanized antibodies. In addition, the non-human antibodies of the invention can be polyclonal antibodies or monoclonal  
5 antibodies.

In still a further aspect, the invention provides monoclonal antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the  
10 present invention, a fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to an amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an  
15 amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. The monoclonal antibodies can be human, humanized, chimeric and/or non-human antibodies.

20 The substantially purified antibodies or fragments thereof may specifically bind to a signal peptide, a secreted sequence, an extracellular domain, a transmembrane or a cytoplasmic domain or cytoplasmic membrane of a polypeptide of the invention. In a particularly preferred embodiment, the substantially purified antibodies or fragments thereof, the non-human antibodies or fragments thereof, and/or the monoclonal  
25 antibodies or fragments thereof, of the invention specifically bind to a secreted sequence or an extracellular domain of the amino acid sequences of the present invention.

Any of the antibodies of the invention can be conjugated to a therapeutic moiety or to a detectable substance. Non-limiting examples of detectable substances that can be conjugated to the antibodies of the invention are an enzyme, a prosthetic group, a  
30 fluorescent material, a luminescent material, a bioluminescent material, and a radioactive material.

The invention also provides a kit containing an antibody of the invention conjugated to a detectable substance, and instructions for use. Still another aspect of the invention is a pharmaceutical composition comprising an antibody of the invention and a pharmaceutically acceptable carrier. In preferred embodiments, the pharmaceutical  
5 composition contains an antibody of the invention, a therapeutic moiety, and a pharmaceutically acceptable carrier.

Still another aspect of the invention is a method of making an antibody that specifically recognizes a polypeptide of the present invention, the method comprising immunizing a mammal with a polypeptide. The polypeptide used as an immungen  
10 comprises an amino acid sequence selected from the group consisting of the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the nucleic acid molecules of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention  
15 (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of  
20 hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. After immunization, a sample is collected from the mammal that contains an antibody that specifically recognizes the polypeptide. Preferably, the polypeptide is recombinantly produced using a non-human host cell. Optionally, the antibodies can be further purified from the sample using techniques well known to those of skill in the art.  
25 The method can further comprise producing a monoclonal antibody- producing cell from the cells of the mammal. Optionally, antibodies are collected from the antibody-producing cell.

### III. Recombinant Expression Vectors and Host Cells

30 Another aspect of the invention pertains to vectors, preferably expression vectors, containing a nucleic acid encoding a polypeptide corresponding to a marker of the invention (or a portion of such a polypeptide). As used herein, the term "vector"

refers to a nucleic acid molecule capable of transporting another nucleic acid to which it has been linked. One type of vector is a "plasmid", which refers to a circular double stranded DNA loop into which additional DNA segments can be ligated. Another type of vector is a viral vector, wherein additional DNA segments can be ligated into the viral genome. Certain vectors are capable of autonomous replication in a host cell into which they are introduced (*e.g.*, bacterial vectors having a bacterial origin of replication and episomal mammalian vectors). Other vectors (*e.g.*, non-episomal mammalian vectors) are integrated into the genome of a host cell upon introduction into the host cell, and thereby are replicated along with the host genome. Moreover, certain vectors, namely expression vectors, are capable of directing the expression of genes to which they are operably linked. In general, expression vectors of utility in recombinant DNA techniques are often in the form of plasmids (vectors). However, the invention is intended to include such other forms of expression vectors, such as viral vectors (*e.g.*, replication defective retroviruses, adenoviruses and adeno-associated viruses), which serve equivalent functions.

The recombinant expression vectors of the invention comprise a nucleic acid of the invention in a form suitable for expression of the nucleic acid in a host cell. This means that the recombinant expression vectors include one or more regulatory sequences, selected on the basis of the host cells to be used for expression, which is operably linked to the nucleic acid sequence to be expressed. Within a recombinant expression vector, "operably linked" is intended to mean that the nucleotide sequence of interest is linked to the regulatory sequence(s) in a manner which allows for expression of the nucleotide sequence (*e.g.*, in an *in vitro* transcription/translation system or in a host cell when the vector is introduced into the host cell). The term "regulatory sequence" is intended to include promoters, enhancers and other expression control elements (*e.g.*, polyadenylation signals). Such regulatory sequences are described, for example, in Goeddel, *Methods in Enzymology: Gene Expression Technology* vol.185, Academic Press, San Diego, CA (1991). Regulatory sequences include those which direct constitutive expression of a nucleotide sequence in many types of host cell and those which direct expression of the nucleotide sequence only in certain host cells (*e.g.*, tissue-specific regulatory sequences). It will be appreciated by those skilled in the art that the design of the expression vector can depend on such factors as the choice of the

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host cell to be transformed, the level of expression of protein desired, and the like. The expression vectors of the invention can be introduced into host cells to thereby produce proteins or peptides, including fusion proteins or peptides, encoded by nucleic acids as described herein.

5           The recombinant expression vectors of the invention can be designed for expression of a polypeptide corresponding to a marker of the invention in prokaryotic (e.g., *E. coli*) or eukaryotic cells (e.g., insect cells {using baculovirus expression vectors}, yeast cells or mammalian cells). Suitable host cells are discussed further in Goeddel, *supra*. Alternatively, the recombinant expression vector can be transcribed  
10 and translated *in vitro*, for example using T7 promoter regulatory sequences and T7 polymerase.

Expression of proteins in prokaryotes is most often carried out in *E. coli* with vectors containing constitutive or inducible promoters directing the expression of either fusion or non-fusion proteins. Fusion vectors add a number of amino acids to a protein  
15 encoded therein, usually to the amino terminus of the recombinant protein. Such fusion vectors typically serve three purposes: 1) to increase expression of recombinant protein; 2) to increase the solubility of the recombinant protein; and 3) to aid in the purification of the recombinant protein by acting as a ligand in affinity purification. Often, in fusion expression vectors, a proteolytic cleavage site is introduced at the junction of the fusion  
20 moiety and the recombinant protein to enable separation of the recombinant protein from the fusion moiety subsequent to purification of the fusion protein. Such enzymes, and their cognate recognition sequences, include Factor Xa, thrombin and enterokinase. Typical fusion expression vectors include pGEX (Pharmacia Biotech Inc; Smith and Johnson, 1988, *Gene* 67:31-40), pMAL (New England Biolabs, Beverly, MA) and  
25 pRIT5 (Pharmacia, Piscataway, NJ) which fuse glutathione S-transferase (GST), maltose E binding protein, or protein A, respectively, to the target recombinant protein.

Examples of suitable inducible non-fusion *E. coli* expression vectors include pTrc (Amann *et al.*, 1988, *Gene* 69:301-315) and pET 11d (Studier *et al.*, p. 60-89, In *Gene Expression Technology: Methods in Enzymology* vol.185, Academic Press, San  
30 Diego, CA, 1991). Target gene expression from the pTrc vector relies on host RNA polymerase transcription from a hybrid trp-lac fusion promoter. Target gene expression from the pET 11d vector relies on transcription from a T7 gn10-lac fusion promoter

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mediated by a co-expressed viral RNA polymerase (T7 *gn1*). This viral polymerase is supplied by host strains BL21(DE3) or HMS174(DE3) from a resident prophage harboring a T7 *gn1* gene under the transcriptional control of the *lacUV 5* promoter.

One strategy to maximize recombinant protein expression in *E. coli* is to express  
5 the protein in a host bacteria with an impaired capacity to proteolytically cleave the recombinant protein (Gottesman, p. 119-128, In *Gene Expression Technology: Methods in Enzymology* vol. 185, Academic Press, San Diego, CA, 1990. Another strategy is to alter the nucleic acid sequence of the nucleic acid to be inserted into an expression vector so that the individual codons for each amino acid are those preferentially utilized  
10 in *E. coli* (Wada *et al.*, 1992, *Nucleic Acids Res.* 20:2111-2118). Such alteration of nucleic acid sequences of the invention can be carried out by standard DNA synthesis techniques.

In another embodiment, the expression vector is a yeast expression vector. Examples of vectors for expression in yeast *S. cerevisiae* include pYepSec1 (Baldari *et al.*, 1987, *EMBO J.* 6:229-234), pMFa (Kurjan and Herskowitz, 1982, *Cell* 30:933-  
15 943), pJRY88 (Schultz *et al.*, 1987, *Gene* 54:113-123), pYES2 (Invitrogen Corporation, San Diego, CA), and pPicZ (Invitrogen Corp, San Diego, CA).

Alternatively, the expression vector is a baculovirus expression vector. Baculovirus vectors available for expression of proteins in cultured insect cells (*e.g.*, Sf  
20 9 cells) include the pAc series (Smith *et al.*, 1983, *Mol. Cell Biol.* 3:2156-2165) and the pVL series (Lucklow and Summers, 1989, *Virology* 170:31-39).

In yet another embodiment, a nucleic acid of the invention is expressed in mammalian cells using a mammalian expression vector. Examples of mammalian expression vectors include pCDM8 (Seed, 1987, *Nature* 329:840) and pMT2PC  
25 (Kaufman *et al.*, 1987, *EMBO J.* 6:187-195). When used in mammalian cells, the expression vector's control functions are often provided by viral regulatory elements. For example, commonly used promoters are derived from polyoma, Adenovirus 2, cytomegalovirus and Simian Virus 40. For other suitable expression systems for both prokaryotic and eukaryotic cells see chapters 16 and 17 of Sambrook *et al.*, *supra*.

30 In another embodiment, the recombinant mammalian expression vector is capable of directing expression of the nucleic acid preferentially in a particular cell type (*e.g.*, tissue-specific regulatory elements are used to express the nucleic acid). Tissue-



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specific regulatory elements are known in the art. Non-limiting examples of suitable tissue-specific promoters include the albumin promoter (liver-specific; Pinkert *et al.*, 1987, *Genes Dev.* 1:268-277), lymphoid-specific promoters (Calame and Eaton, 1988, *Adv. Immunol.* 43:235-275), in particular promoters of T cell receptors (Winoto and  
5 Baltimore, 1989, *EMBO J.* 8:729-733) and immunoglobulins (Banerji *et al.*, 1983, *Cell* 33:729-740; Queen and Baltimore, 1983, *Cell* 33:741-748), neuron-specific promoters (*e.g.*, the neurofilament promoter; Byrne and Ruddle, 1989, *Proc. Natl. Acad. Sci. USA* 86:5473-5477), pancreas-specific promoters (Edlund *et al.*, 1985, *Science* 230:912-916), and mammary gland-specific promoters (*e.g.*, milk whey promoter; U.S. Patent No.  
10 4,873,316 and European Application Publication No. 264,166). Developmentally-regulated promoters are also encompassed, for example the murine hox promoters (Kessel and Gruss, 1990, *Science* 249:374-379) and the  $\alpha$ -fetoprotein promoter (Camper and Tilghman, 1989, *Genes Dev.* 3:537-546).

The invention further provides a recombinant expression vector comprising a  
15 DNA molecule of the invention cloned into the expression vector in an antisense orientation. That is, the DNA molecule is operably linked to a regulatory sequence in a manner which allows for expression (by transcription of the DNA molecule) of an RNA molecule which is antisense to the mRNA encoding a polypeptide of the invention. Regulatory sequences operably linked to a nucleic acid cloned in the antisense  
20 orientation can be chosen which direct the continuous expression of the antisense RNA molecule in a variety of cell types, for instance viral promoters and/or enhancers, or regulatory sequences can be chosen which direct constitutive, tissue-specific or cell type specific expression of antisense RNA. The antisense expression vector can be in the form of a recombinant plasmid, phagemid, or attenuated virus in which antisense nucleic  
25 acids are produced under the control of a high efficiency regulatory region, the activity of which can be determined by the cell type into which the vector is introduced. For a discussion of the regulation of gene expression using antisense genes see Weintraub *et al.*, 1986, *Trends in Genetics*, Vol. 1(1).

Another aspect of the invention pertains to host cells into which a recombinant  
30 expression vector of the invention has been introduced. The terms "host cell" and "recombinant host cell" are used interchangeably herein. It is understood that such terms refer not only to the particular subject cell but to the progeny or potential progeny

of such a cell. Because certain modifications may occur in succeeding generations due to either mutation or environmental influences, such progeny may not, in fact, be identical to the parent cell, but are still included within the scope of the term as used herein.

5           A host cell can be any prokaryotic (*e.g.*, *E. coli*) or eukaryotic cell (*e.g.*, insect cells, yeast or mammalian cells).

          Vector DNA can be introduced into prokaryotic or eukaryotic cells via conventional transformation or transfection techniques. As used herein, the terms "transformation" and "transfection" are intended to refer to a variety of art-recognized  
10 techniques for introducing foreign nucleic acid into a host cell, including calcium phosphate or calcium chloride co-precipitation, DEAE-dextran-mediated transfection, lipofection, or electroporation. Suitable methods for transforming or transfecting host cells can be found in Sambrook, *et al.* (*supra*), and other laboratory manuals.

          For stable transfection of mammalian cells, it is known that, depending upon the  
15 expression vector and transfection technique used, only a small fraction of cells may integrate the foreign DNA into their genome. In order to identify and select these integrants, a gene that encodes a selectable marker (*e.g.*, for resistance to antibiotics) is generally introduced into the host cells along with the gene of interest. Preferred selectable markers include those which confer resistance to drugs, such as G418,  
20 hygromycin and methotrexate. Cells stably transfected with the introduced nucleic acid can be identified by drug selection (*e.g.*, cells that have incorporated the selectable marker gene will survive, while the other cells die).

          A host cell of the invention, such as a prokaryotic or eukaryotic host cell in culture, can be used to produce a polypeptide corresponding to a marker of the  
25 invention. Accordingly, the invention further provides methods for producing a polypeptide corresponding to a marker of the invention using the host cells of the invention. In one embodiment, the method comprises culturing the host cell of invention (into which a recombinant expression vector encoding a polypeptide of the invention has been introduced) in a suitable medium such that the marker is produced.  
30 In another embodiment, the method further comprises isolating the marker polypeptide from the medium or the host cell.

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The host cells of the invention can also be used to produce nonhuman transgenic animals. For example, in one embodiment, a host cell of the invention is a fertilized oocyte or an embryonic stem cell into which a sequences encoding a polypeptide corresponding to a marker of the invention have been introduced. Such host cells can  
5 then be used to create non-human transgenic animals in which exogenous sequences encoding a marker protein of the invention have been introduced into their genome or homologous recombinant animals in which endogenous gene(s) encoding a polypeptide corresponding to a marker of the invention sequences have been altered. Such animals are useful for studying the function and/or activity of the polypeptide corresponding to  
10 the marker and for identifying and/or evaluating modulators of polypeptide activity. As used herein, a "transgenic animal" is a non-human animal, preferably a mammal, more preferably a rodent such as a rat or mouse, in which one or more of the cells of the animal includes a transgene. Other examples of transgenic animals include non-human primates, sheep, dogs, cows, goats, chickens, amphibians, etc. A transgene is exogenous  
15 DNA which is integrated into the genome of a cell from which a transgenic animal develops and which remains in the genome of the mature animal, thereby directing the expression of an encoded gene product in one or more cell types or tissues of the transgenic animal. As used herein, an "homologous recombinant animal" is a non-human animal, preferably a mammal, more preferably a mouse, in which an endogenous  
20 gene has been altered by homologous recombination between the endogenous gene and an exogenous DNA molecule introduced into a cell of the animal, *e.g.*, an embryonic cell of the animal, prior to development of the animal.

A transgenic animal of the invention can be created by introducing a nucleic acid encoding a polypeptide corresponding to a marker of the invention into the male  
25 pronuclei of a fertilized oocyte, *e.g.*, by microinjection, retroviral infection, and allowing the oocyte to develop in a pseudopregnant female foster animal. Intronic sequences and polyadenylation signals can also be included in the transgene to increase the efficiency of expression of the transgene. A tissue-specific regulatory sequence(s) can be operably linked to the transgene to direct expression of the polypeptide of the invention to  
30 particular cells. Methods for generating transgenic animals via embryo manipulation and microinjection, particularly animals such as mice, have become conventional in the art and are described, for example, in U.S. Patent Nos. 4,736,866 and 4,870,009, U.S.

Patent No. 4,873,191 and in Hogan, *Manipulating the Mouse Embryo*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1986. Similar methods are used for production of other transgenic animals. A transgenic founder animal can be identified based upon the presence of the transgene in its genome and/or expression of mRNA  
5 encoding the transgene in tissues or cells of the animals. A transgenic founder animal can then be used to breed additional animals carrying the transgene. Moreover, transgenic animals carrying the transgene can further be bred to other transgenic animals carrying other transgenes.

To create an homologous recombinant animal, a vector is prepared which  
10 contains at least a portion of a gene encoding a polypeptide corresponding to a marker of the invention into which a deletion, addition or substitution has been introduced to thereby alter, *e.g.*, functionally disrupt, the gene. In a preferred embodiment, the vector is designed such that, upon homologous recombination, the endogenous gene is functionally disrupted (*i.e.*, no longer encodes a functional protein; also referred to as a  
15 "knock out" vector). Alternatively, the vector can be designed such that, upon homologous recombination, the endogenous gene is mutated or otherwise altered but still encodes functional protein (*e.g.*, the upstream regulatory region can be altered to thereby alter the expression of the endogenous protein). In the homologous recombination vector, the altered portion of the gene is flanked at its 5' and 3' ends by  
20 additional nucleic acid of the gene to allow for homologous recombination to occur between the exogenous gene carried by the vector and an endogenous gene in an embryonic stem cell. The additional flanking nucleic acid sequences are of sufficient length for successful homologous recombination with the endogenous gene. Typically, several kilobases of flanking DNA (both at the 5' and 3' ends) are included in the vector  
25 (see, *e.g.*, Thomas and Capecchi, 1987, *Cell* 51:503 for a description of homologous recombination vectors). The vector is introduced into an embryonic stem cell line (*e.g.*, by electroporation) and cells in which the introduced gene has homologously recombined with the endogenous gene are selected (see, *e.g.*, Li *et al.*, 1992, *Cell* 69:915). The selected cells are then injected into a blastocyst of an animal (*e.g.*, a  
30 mouse) to form aggregation chimeras (see, *e.g.*, Bradley, *Teratocarcinomas and Embryonic Stem Cells: A Practical Approach*, Robertson, Ed., IRL, Oxford, 1987, pp. 113-152). A chimeric embryo can then be implanted into a suitable pseudopregnant

female foster animal and the embryo brought to term. Progeny harboring the homologously recombined DNA in their germ cells can be used to breed animals in which all cells of the animal contain the homologously recombined DNA by germline transmission of the transgene. Methods for constructing homologous recombination  
5 vectors and homologous recombinant animals are described further in Bradley (1991) *Current Opinion in Bio/Technology* 2:823-829 and in PCT Publication NOS. WO 90/11354, WO 91/01140, WO 92/0968, and WO 93/04169.

In another embodiment, transgenic non-human animals can be produced which contain selected systems which allow for regulated expression of the transgene. One  
10 example of such a system is the *cre/loxP* recombinase system of bacteriophage P1. For a description of the *cre/loxP* recombinase system, see, e.g., Lakso *et al.* (1992) *Proc. Natl. Acad. Sci. USA* 89:6232-6236. Another example of a recombinase system is the FLP recombinase system of *Saccharomyces cerevisiae* (O'Gorman *et al.*, 1991, *Science* 251:1351-1355). If a *cre/loxP* recombinase system is used to regulate expression of the  
15 transgene, animals containing transgenes encoding both the *Cre* recombinase and a selected protein are required. Such animals can be provided through the construction of "double" transgenic animals, e.g., by mating two transgenic animals, one containing a transgene encoding a selected protein and the other containing a transgene encoding a recombinase.

20 Clones of the non-human transgenic animals described herein can also be produced according to the methods described in Wilmut *et al.* (1997) *Nature* 385:810-813 and PCT Publication NOS. WO 97/07668 and WO 97/07669.

#### IV. Pharmaceutical Compositions

25 The nucleic acid molecules, polypeptides, and antibodies (also referred to herein as "active compounds") corresponding to a marker of the invention can be incorporated into pharmaceutical compositions suitable for administration. Such compositions typically comprise the nucleic acid molecule, protein, or antibody and a pharmaceutically acceptable carrier. As used herein the language "pharmaceutically  
30 acceptable carrier" is intended to include any and all solvents, dispersion media, coatings, antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like, compatible with pharmaceutical administration. The use of such media and

agents for pharmaceutically active substances is well known in the art. Except insofar as any conventional media or agent is incompatible with the active compound, use thereof in the compositions is contemplated. Supplementary active compounds can also be incorporated into the compositions.

5           The invention includes methods for preparing pharmaceutical compositions for modulating the expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such methods comprise formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such compositions can  
10 further include additional active agents. Thus, the invention further includes methods for preparing a pharmaceutical composition by formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention and one or more additional active compounds.

15           The invention also provides methods (also referred to herein as "screening assays") for identifying modulators, *i.e.*, candidate or test compounds or agents (*e.g.*, peptides, peptidomimetics, peptoids, small molecules or other drugs) which (a) bind to the marker, or (b) have a modulatory (*e.g.*, stimulatory or inhibitory) effect on the activity of the marker or, more specifically, (c) have a modulatory effect on the  
20 interactions of the marker with one or more of its natural substrates (*e.g.*, peptide, protein, hormone, co-factor, or nucleic acid), or (d) have a modulatory effect on the expression of the marker. Such assays typically comprise a reaction between the marker and one or more assay components. The other components may be either the test compound itself, or a combination of test compound and a natural binding partner of the  
25 marker.

          The test compounds of the present invention may be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. Test compounds may also be obtained by any of the numerous approaches in combinatorial library methods known in the art, including: biological libraries; peptoid libraries  
30 (libraries of molecules having the functionalities of peptides, but with a novel, non-peptide backbone which are resistant to enzymatic degradation but which nevertheless remain bioactive; see, *e.g.*, Zuckermann *et al.*, 1994, *J. Med. Chem.* 37:2678-85);

spatially addressable parallel solid phase or solution phase libraries; synthetic library methods requiring deconvolution; the 'one-bead one-compound' library method; and synthetic library methods using affinity chromatography selection. The biological library and peptoid library approaches are limited to peptide libraries, while the other  
5 four approaches are applicable to peptide, non-peptide oligomer or small molecule libraries of compounds (Lam, 1997, *Anticancer Drug Des.* 12:145).

Examples of methods for the synthesis of molecular libraries can be found in the art, for example in: DeWitt *et al.* (1993) *Proc. Natl. Acad. Sci. U.S.A.* 90:6909; Erb *et al.* (1994) *Proc. Natl. Acad. Sci. USA* 91:11422; Zuckermann *et al.* (1994). *J. Med.*  
10 *Chem.* 37:2678; Cho *et al.* (1993) *Science* 261:1303; Carrell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2059; Carell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2061; and in Gallop *et al.* (1994) *J. Med. Chem.* 37:1233.

Libraries of compounds may be presented in solution (*e.g.*, Houghten, 1992, *Biotechniques* 13:412-421), or on beads (Lam, 1991, *Nature* 354:82-84), chips (Fodor,  
15 1993, *Nature* 364:555-556), bacteria and/or spores, (Ladner, USP 5,223,409), plasmids (Cull *et al.*, 1992, *Proc Natl Acad Sci USA* 89:1865-1869) or on phage (Scott and Smith, 1990, *Science* 249:386-390; Devlin, 1990, *Science* 249:404-406; Cwirla *et al.*, 1990, *Proc. Natl. Acad. Sci.* 87:6378-6382; Felici, 1991, *J. Mol. Biol.* 222:301-310; Ladner, *supra.*).

20 In one embodiment, the invention provides assays for screening candidate or test compounds which are substrates of a marker or biologically active portion thereof. In another embodiment, the invention provides assays for screening candidate or test compounds which bind to a marker or biologically active portion thereof. Determining the ability of the test compound to directly bind to a marker can be accomplished, for  
25 example, by coupling the compound with a radioisotope or enzymatic label such that binding of the compound to the marker can be determined by detecting the labeled marker compound in a complex. For example, compounds (*e.g.*, marker substrates) can be labeled with  $^{125}\text{I}$ ,  $^{35}\text{S}$ ,  $^{14}\text{C}$ , or  $^3\text{H}$ , either directly or indirectly, and the radioisotope detected by direct counting of radioemission or by scintillation counting. Alternatively,  
30 assay components can be enzymatically labeled with, for example, horseradish peroxidase, alkaline phosphatase, or luciferase, and the enzymatic label detected by determination of conversion of an appropriate substrate to product.

In another embodiment, the invention provides assays for screening candidate or test compounds which modulate the activity of a marker or a biologically active portion thereof. In all likelihood, the marker can, *in vivo*, interact with one or more molecules, such as but not limited to, peptides, proteins, hormones, cofactors and nucleic acids. For the purposes of this discussion, such cellular and extracellular molecules are referred to herein as "binding partners" or marker "substrate".

One necessary embodiment of the invention in order to facilitate such screening is the use of the marker to identify its natural *in vivo* binding partners. There are many ways to accomplish this which are known to one skilled in the art. One example is the use of the marker protein as "bait protein" in a two-hybrid assay or three-hybrid assay (see, e.g., U.S. Patent No. 5,283,317; Zervos *et al*, 1993, *Cell* 72:223-232; Madura *et al*, 1993, *J. Biol. Chem.* 268:12046-12054; Bartel *et al*, 1993, *Biotechniques* 14:920-924; Iwabuchi *et al*, 1993 *Oncogene* 8:1693-1696; Brent WO94/10300) in order to identify other proteins which bind to or interact with the marker (binding partners) and, therefore, are possibly involved in the natural function of the marker. Such marker binding partners are also likely to be involved in the propagation of signals by the marker or downstream elements of a marker-mediated signaling pathway. Alternatively, such marker binding partners may also be found to be inhibitors of the marker.

The two-hybrid system is based on the modular nature of most transcription factors, which consist of separable DNA-binding and activation domains. Briefly, the assay utilizes two different DNA constructs. In one construct, the gene that encodes a marker protein fused to a gene encoding the DNA binding domain of a known transcription factor (e.g., GAL-4). In the other construct, a DNA sequence, from a library of DNA sequences, that encodes an unidentified protein ("prey" or "sample") is fused to a gene that codes for the activation domain of the known transcription factor. If the "bait" and the "prey" proteins are able to interact, *in vivo*, forming a marker-dependent complex, the DNA-binding and activation domains of the transcription factor are brought into close proximity. This proximity allows transcription of a reporter gene (e.g., LacZ) which is operably linked to a transcriptional regulatory site responsive to the transcription factor. Expression of the reporter gene can be readily detected and cell colonies containing the functional transcription factor can be isolated and used to obtain the cloned gene which encodes the protein which interacts with the marker protein.



In a further embodiment, assays may be devised through the use of the invention for the purpose of identifying compounds which modulate (*e.g.*, affect either positively or negatively) interactions between a marker and its substrates and/or binding partners. Such compounds can include, but are not limited to, molecules such as antibodies, peptides, hormones, oligonucleotides, nucleic acids, and analogs thereof. Such compounds may also be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. The preferred assay components for use in this embodiment is an cervical cancer marker identified herein, the known binding partner and/or substrate of same, and the test compound. Test compounds can be supplied from any source.

The basic principle of the assay systems used to identify compounds that interfere with the interaction between the marker and its binding partner involves preparing a reaction mixture containing the marker and its binding partner under conditions and for a time sufficient to allow the two products to interact and bind, thus forming a complex. In order to test an agent for inhibitory activity, the reaction mixture is prepared in the presence and absence of the test compound. The test compound can be initially included in the reaction mixture, or can be added at a time subsequent to the addition of the marker and its binding partner. Control reaction mixtures are incubated without the test compound or with a placebo. The formation of any complexes between the marker and its binding partner is then detected. The formation of a complex in the control reaction, but less or no such formation in the reaction mixture containing the test compound, indicates that the compound interferes with the interaction of the marker and its binding partner. Conversely, the formation of more complex in the presence of compound than in the control reaction indicates that the compound may enhance interaction of the marker and its binding partner.

The assay for compounds that interfere with the interaction of the marker with its binding partner may be conducted in a heterogeneous or homogeneous format. Heterogeneous assays involve anchoring either the marker or its binding partner onto a solid phase and detecting complexes anchored to the solid phase at the end of the reaction. In homogeneous assays, the entire reaction is carried out in a liquid phase. In either approach, the order of addition of reactants can be varied to obtain different information about the compounds being tested. For example, test compounds that

interfere with the interaction between the markers and the binding partners (*e.g.*, by competition) can be identified by conducting the reaction in the presence of the test substance, *i.e.*, by adding the test substance to the reaction mixture prior to or simultaneously with the marker and its interactive binding partner. Alternatively, test compounds that disrupt preformed complexes, *e.g.*, compounds with higher binding constants that displace one of the components from the complex, can be tested by adding the test compound to the reaction mixture after complexes have been formed. The various formats are briefly described below.

In a heterogeneous assay system, either the marker or its binding partner is anchored onto a solid surface or matrix, while the other corresponding non-anchored component may be labeled, either directly or indirectly. In practice, microtitre plates are often utilized for this approach. The anchored species can be immobilized by a number of methods, either non-covalent or covalent, that are typically well known to one who practices the art. Non-covalent attachment can often be accomplished simply by coating the solid surface with a solution of the marker or its binding partner and drying. Alternatively, an immobilized antibody specific for the assay component to be anchored can be used for this purpose. Such surfaces can often be prepared in advance and stored.

In related embodiments, a fusion protein can be provided which adds a domain that allows one or both of the assay components to be anchored to a matrix. For example, glutathione-S-transferase/marker fusion proteins or glutathione-S-transferase/binding partner can be adsorbed onto glutathione sepharose beads (Sigma Chemical, St. Louis, MO) or glutathione derivatized microtiter plates, which are then combined with the test compound or the test compound and either the non-adsorbed marker or its binding partner, and the mixture incubated under conditions conducive to complex formation (*e.g.*, physiological conditions). Following incubation, the beads or microtiter plate wells are washed to remove any unbound assay components, the immobilized complex assessed either directly or indirectly, for example, as described above. Alternatively, the complexes can be dissociated from the matrix, and the level of marker binding or activity determined using standard techniques.

Other techniques for immobilizing proteins on matrices can also be used in the screening assays of the invention. For example, either a marker or a marker binding partner can be immobilized utilizing conjugation of biotin and streptavidin. Biotinylated

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marker protein or target molecules can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the protein-immobilized surfaces can be prepared in  
5 advance and stored.

In order to conduct the assay, the corresponding partner of the immobilized assay component is exposed to the coated surface with or without the test compound. After the reaction is complete, unreacted assay components are removed (*e.g.*, by washing) and any complexes formed will remain immobilized on the solid surface. The detection  
10 of complexes anchored on the solid surface can be accomplished in a number of ways. Where the non-immobilized component is pre-labeled, the detection of label immobilized on the surface indicates that complexes were formed. Where the non-immobilized component is not pre-labeled, an indirect label can be used to detect complexes anchored on the surface; *e.g.*, using a labeled antibody specific for the  
15 initially non-immobilized species (the antibody, in turn, can be directly labeled or indirectly labeled with, *e.g.*, a labeled anti-Ig antibody). Depending upon the order of addition of reaction components, test compounds which modulate (inhibit or enhance) complex formation or which disrupt preformed complexes can be detected.

In an alternate embodiment of the invention, a homogeneous assay may be used.  
20 This is typically a reaction, analogous to those mentioned above, which is conducted in a liquid phase in the presence or absence of the test compound. The formed complexes are then separated from unreacted components, and the amount of complex formed is determined. As mentioned for heterogeneous assay systems, the order of addition of reactants to the liquid phase can yield information about which test compounds  
25 modulate (inhibit or enhance) complex formation and which disrupt preformed complexes.

In such a homogeneous assay, the reaction products may be separated from unreacted assay components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and  
30 immunoprecipitation. In differential centrifugation, complexes of molecules may be separated from uncomplexed molecules through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and

densities (see, for example, Rivas, G., and Minton, A.P., *Trends Biochem Sci* 1993 Aug;18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the complex as compared to the uncomplexed molecules may be exploited to differentially separate the complex from the remaining individual reactants, for example through the use of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, 1998, *J Mol. Recognit.* 11:141-148; Hage and Tweed, 1997, *J. Chromatogr. B. Biomed. Sci. Appl.*, 699:499-525). Gel electrophoresis may also be employed to separate complexed molecules from unbound species (see, *e.g.*, Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York. 1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, nondenaturing gels in the absence of reducing agent are typically preferred, but conditions appropriate to the particular interactants will be well known to one skilled in the art. Immunoprecipitation is another common technique utilized for the isolation of a protein-protein complex from solution (see, *e.g.*, Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York. 1999). In this technique, all proteins binding to an antibody specific to one of the binding molecules are precipitated from solution by conjugating the antibody to a polymer bead that may be readily collected by centrifugation. The bound assay components are released from the beads (through a specific proteolysis event or other technique well known in the art which will not disturb the protein-protein interaction in the complex), and a second immunoprecipitation step is performed, this time utilizing antibodies specific for the correspondingly different interacting assay component. In this manner, only formed complexes should remain attached to the beads. Variations in complex formation in both the presence and the absence of a test compound can be compared, thus offering information about the ability of the compound to modulate interactions between the marker and its binding partner.

Also within the scope of the present invention are methods for direct detection of interactions between the marker and its natural binding partner and/or a test compound in a homogeneous or heterogeneous assay system without further sample manipulation. For example, the technique of fluorescence energy transfer may be utilized (see, *e.g.*,  
5 Lakowicz *et al*, U.S. Patent No. 5,631,169; Stavrianopoulos *et al*, U.S. Patent No. 4,868,103). Generally, this technique involves the addition of a fluorophore label on a first 'donor' molecule (*e.g.*, marker or test compound) such that its emitted fluorescent energy will be absorbed by a fluorescent label on a second, 'acceptor' molecule (*e.g.*, marker or test compound), which in turn is able to fluoresce due to the absorbed energy.  
10 Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be  
15 assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter). A test substance which either enhances or hinders participation of one of the species in the preformed complex will  
20 result in the generation of a signal variant to that of background. In this way, test substances that modulate interactions between a marker and its binding partner can be identified in controlled assays.

In another embodiment, modulators of marker expression are identified in a method wherein a cell is contacted with a candidate compound and the expression of  
25 mRNA or protein, corresponding to a marker in the cell, is determined. The level of expression of mRNA or protein in the presence of the candidate compound is compared to the level of expression of mRNA or protein in the absence of the candidate compound. The candidate compound can then be identified as a modulator of marker expression based on this comparison. For example, when expression of marker mRNA  
30 or protein is greater (statistically significantly greater) in the presence of the candidate compound than in its absence, the candidate compound is identified as a stimulator of marker mRNA or protein expression. Conversely, when expression of marker mRNA

or protein is less (statistically significantly less) in the presence of the candidate compound than in its absence, the candidate compound is identified as an inhibitor of marker mRNA or protein expression. The level of marker mRNA or protein expression in the cells can be determined by methods described herein for detecting marker mRNA  
5 or protein.

In another aspect, the invention pertains to a combination of two or more of the assays described herein. For example, a modulating agent can be identified using a cell-based or a cell free assay, and the ability of the agent to modulate the activity of a marker protein can be further confirmed *in vivo*, *e.g.*, in a whole animal model for  
10 cellular transformation and/or tumorigenesis.

This invention further pertains to novel agents identified by the above-described screening assays. Accordingly, it is within the scope of this invention to further use an agent identified as described herein in an appropriate animal model. For example, an agent identified as described herein (*e.g.*, an marker modulating agent, an antisense  
15 marker nucleic acid molecule, an marker-specific antibody, or an marker-binding partner) can be used in an animal model to determine the efficacy, toxicity, or side effects of treatment with such an agent. Alternatively, an agent identified as described herein can be used in an animal model to determine the mechanism of action of such an agent. Furthermore, this invention pertains to uses of novel agents identified by the  
20 above-described screening assays for treatments as described herein.

It is understood that appropriate doses of small molecule agents and protein or polypeptide agents depends upon a number of factors within the knowledge of the ordinarily skilled physician, veterinarian, or researcher. The dose(s) of these agents will vary, for example, depending upon the identity, size, and condition of the subject or  
25 sample being treated, further depending upon the route by which the composition is to be administered, if applicable, and the effect which the practitioner desires the agent to have upon the nucleic acid or polypeptide of the invention. Exemplary doses of a small molecule include milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 500 milligrams per kilogram,  
30 about 100 micrograms per kilogram to about 5 milligrams per kilogram, or about 1 microgram per kilogram to about 50 micrograms per kilogram). Exemplary doses of a protein or polypeptide include gram, milligram or microgram amounts per kilogram of

subject or sample weight (*e.g.* about 1 microgram per kilogram to about 5 grams per kilogram, about 100 micrograms per kilogram to about 500 milligrams per kilogram, or about 1 milligram per kilogram to about 50 milligrams per kilogram). It is furthermore understood that appropriate doses of one of these agents depend upon the potency of the agent with respect to the expression or activity to be modulated. Such appropriate doses can be determined using the assays described herein. When one or more of these agents is to be administered to an animal (*e.g.* a human) in order to modulate expression or activity of a polypeptide or nucleic acid of the invention, a physician, veterinarian, or researcher can, for example, prescribe a relatively low dose at first, subsequently increasing the dose until an appropriate response is obtained. In addition, it is understood that the specific dose level for any particular animal subject will depend upon a variety of factors including the activity of the specific agent employed, the age, body weight, general health, gender, and diet of the subject, the time of administration, the route of administration, the rate of excretion, any drug combination, and the degree of expression or activity to be modulated.

A pharmaceutical composition of the invention is formulated to be compatible with its intended route of administration. Examples of routes of administration include parenteral, *e.g.*, intravenous, intradermal, subcutaneous, oral (*e.g.*, inhalation), transdermal (topical), transmucosal, and rectal administration. Solutions or suspensions used for parenteral, intradermal, or subcutaneous application can include the following components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediamine-tetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. pH can be adjusted with acids or bases, such as hydrochloric acid or sodium hydroxide. The parenteral preparation can be enclosed in ampules, disposable syringes or multiple dose vials made of glass or plastic.

Pharmaceutical compositions suitable for injectable use include sterile aqueous solutions (where water soluble) or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. For intravenous administration, suitable carriers include physiological saline, bacteriostatic

water, Cremophor EL (BASF; Parsippany, NJ) or phosphate buffered saline (PBS). In all cases, the composition must be sterile and should be fluid to the extent that easy syringability exists. It must be stable under the conditions of manufacture and storage and must be preserved against the contaminating action of microorganisms such as bacteria and fungi. The carrier can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), and suitable mixtures thereof. The proper fluidity can be maintained, for example, by the use of a coating such as lecithin, by the maintenance of the required particle size in the case of dispersion and by the use of surfactants.

Prevention of the action of microorganisms can be achieved by various antibacterial and antifungal agents, for example, parabens, chlorobutanol, phenol, ascorbic acid, thimerosal, and the like. In many cases, it will be preferable to include isotonic agents, for example, sugars, polyalcohols such as mannitol, sorbitol, or sodium chloride in the composition. Prolonged absorption of the injectable compositions can be brought about by including in the composition an agent which delays absorption, for example, aluminum monostearate and gelatin.

Sterile injectable solutions can be prepared by incorporating the active compound (*e.g.*, a polypeptide or antibody) in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required, followed by filtered sterilization. Generally, dispersions are prepared by incorporating the active compound into a sterile vehicle which contains a basic dispersion medium, and then incorporating the required other ingredients from those enumerated above. In the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum drying and freeze-drying which yields a powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

Oral compositions generally include an inert diluent or an edible carrier. They can be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients and used in the form of tablets, troches, or capsules. Oral compositions can also be prepared using a fluid carrier for use as a mouthwash, wherein the compound in the fluid carrier is applied orally and swished and expectorated or swallowed.



Pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of the composition. The tablets, pills, capsules, troches, and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch  
5 or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent such as sucrose or saccharin; or a flavoring agent such as peppermint, methyl salicylate, or orange flavoring.

For administration by inhalation, the compounds are delivered in the form of an  
10 aerosol spray from a pressurized container or dispenser which contains a suitable propellant, *e.g.*, a gas such as carbon dioxide, or a nebulizer.

Systemic administration can also be by transmucosal or transdermal means. For transmucosal or transdermal administration, penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants are generally known in the art,  
15 and include, for example, for transmucosal administration, detergents, bile salts, and fusidic acid derivatives. Transmucosal administration can be accomplished through the use of nasal sprays or suppositories. For transdermal administration, the active compounds are formulated into ointments, salves, gels, or creams as generally known in the art.

20 The compounds can also be prepared in the form of suppositories (*e.g.*, with conventional suppository bases such as cocoa butter and other glycerides) or retention enemas for rectal delivery.

In one embodiment, the active compounds are prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled  
25 release formulation, including implants and microencapsulated delivery systems. Biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, and polylactic acid. Methods for preparation of such formulations will be apparent to those skilled in the art. The materials can also be obtained commercially from Alza Corporation and Nova  
30 Pharmaceuticals, Inc. Liposomal suspensions (including liposomes having monoclonal antibodies incorporated therein or thereon) can also be used as pharmaceutically

acceptable carriers. These can be prepared according to methods known to those skilled in the art, for example, as described in U.S. Patent No. 4,522,811.

It is especially advantageous to formulate oral or parenteral compositions in dosage unit form for ease of administration and uniformity of dosage. Dosage unit form  
5 as used herein refers to physically discrete units suited as unitary dosages for the subject to be treated; each unit containing a predetermined quantity of active compound calculated to produce the desired therapeutic effect in association with the required pharmaceutical carrier. The specification for the dosage unit forms of the invention are dictated by and directly dependent on the unique characteristics of the active compound  
10 and the particular therapeutic effect to be achieved, and the limitations inherent in the art of compounding such an active compound for the treatment of individuals.

For antibodies, the preferred dosage is 0.1 mg/kg to 100 mg/kg of body weight (generally 10 mg/kg to 20 mg/kg). If the antibody is to act in the brain, a dosage of 50 mg/kg to 100 mg/kg is usually appropriate. Generally, partially human antibodies and  
15 fully human antibodies have a longer half-life within the human body than other antibodies. Accordingly, lower dosages and less frequent administration is often possible. Modifications such as lipidation can be used to stabilize antibodies and to enhance uptake and tissue penetration (*e.g.*, into the cervical epithelium). A method for lipidation of antibodies is described by Cruikshank *et al.* (1997) *J. Acquired Immune*  
20 *Deficiency Syndromes and Human Retrovirology* 14:193.

The nucleic acid molecules corresponding to a marker of the invention can be inserted into vectors and used as gene therapy vectors. Gene therapy vectors can be delivered to a subject by, for example, intravenous injection, local administration (U.S. Patent 5,328,470), or by stereotactic injection (see, *e.g.*, Chen *et al.*, 1994, *Proc. Natl.*  
25 *Acad. Sci. USA* 91:3054-3057). The pharmaceutical preparation of the gene therapy vector can include the gene therapy vector in an acceptable diluent, or can comprise a slow release matrix in which the gene delivery vehicle is imbedded. Alternatively, where the complete gene delivery vector can be produced intact from recombinant cells, *e.g.* retroviral vectors, the pharmaceutical preparation can include one or more cells  
30 which produce the gene delivery system.

The pharmaceutical compositions can be included in a container, pack, or dispenser together with instructions for administration.

#### V. Computer Readable Means and Arrays

Computer readable media comprising a marker(s) of the present invention is also provided. As used herein, "computer readable media" refers to any medium that can be read and accessed directly by a computer. Such media include, but are not limited to:

5 magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. The skilled artisan will readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising computer readable medium

10 having recorded thereon a marker of the present invention.

As used herein, "recorded" refers to a process for storing information on computer readable medium. Those skilled in the art can readily adopt any of the presently known methods for recording information on computer readable medium to generate manufactures comprising the markers of the present invention.

15 A variety of data processor programs and formats can be used to store the marker information of the present invention on computer readable medium. For example, the nucleic acid sequence corresponding to the markers can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and MicroSoft Word, or represented in the form of an ASCII file, stored in a database

20 application, such as DB2, Sybase, Oracle, or the like. Any number of dataprocessor structuring formats (*e.g.*, text file or database) may be adapted in order to obtain computer readable medium having recorded thereon the markers of the present invention.

By providing the markers of the invention in computer readable form, one can

25 routinely access the marker sequence information for a variety of purposes. For example, one skilled in the art can use the nucleotide or amino acid sequences of the invention in computer readable form to compare a target sequence or target structural motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the sequences of the invention which

30 match a particular target sequence or target motif.

The invention also includes an array comprising a marker(s) of the present invention. The array can be used to assay expression of one or more genes in the array. In one embodiment, the array can be used to assay gene expression in a tissue to ascertain tissue specificity of genes in the array. In this manner, up to about 7600 genes  
5 can be simultaneously assayed for expression. This allows a profile to be developed showing a battery of genes specifically expressed in one or more tissues.

In addition to such qualitative determination, the invention allows the quantitation of gene expression. Thus, not only tissue specificity, but also the level of expression of a battery of genes in the tissue is ascertainable. Thus, genes can be  
10 grouped on the basis of their tissue expression *per se* and level of expression in that tissue. This is useful, for example, in ascertaining the relationship of gene expression between or among tissues. Thus, one tissue can be perturbed and the effect on gene expression in a second tissue can be determined. In this context, the effect of one cell type on another cell type in response to a biological stimulus can be determined. Such a  
15 determination is useful, for example, to know the effect of cell-cell interaction at the level of gene expression. If an agent is administered therapeutically to treat one cell type but has an undesirable effect on another cell type, the invention provides an assay to determine the molecular basis of the undesirable effect and thus provides the opportunity to co-administer a counteracting agent or otherwise treat the undesired  
20 effect. Similarly, even within a single cell type, undesirable biological effects can be determined at the molecular level. Thus, the effects of an agent on expression of other than the target gene can be ascertained and counteracted.

In another embodiment, the array can be used to monitor the time course of expression of one or more genes in the array. This can occur in various biological  
25 contexts, as disclosed herein, for example development and differentiation, tumor progression, progression of other diseases, *in vitro* processes, such a cellular transformation and senescence, autonomic neural and neurological processes, such as, for example, pain and appetite, and cognitive functions, such as learning or memory.

The array is also useful for ascertaining the effect of the expression of a gene on  
30 the expression of other genes in the same cell or in different cells. This provides, for example, for a selection of alternate molecular targets for therapeutic intervention if the ultimate or downstream target cannot be regulated.

The array is also useful for ascertaining differential expression patterns of one or more genes in normal and abnormal cells. This provides a battery of genes that could serve as a molecular target for diagnosis or therapeutic intervention.

## 5 VI. Predictive Medicine

The present invention pertains to the field of predictive medicine in which diagnostic assays, prognostic assays, pharmacogenomics, and monitoring clinical trails are used for prognostic (predictive) purposes to thereby treat an individual prophylactically. Accordingly, one aspect of the present invention relates to diagnostic  
10 assays for determining the level of expression of polypeptides or nucleic acids corresponding to one or more markers of the invention, in order to determine whether an individual is at risk of developing cervical cancer. Such assays can be used for prognostic or predictive purposes to thereby prophylactically treat an individual prior to the onset of the cancer.

15 Yet another aspect of the invention pertains to monitoring the influence of agents (*e.g.*, drugs or other compounds administered either to inhibit cervical cancer or to treat or prevent any other disorder {*i.e.* in order to understand any cervical carcinogenic effects that such treatment may have} ) on the expression or activity of a marker of the invention in clinical trials. These and other agents are described in further detail in the  
20 following sections.

### A. Diagnostic Assays

An exemplary method for detecting the presence or absence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample involves  
25 obtaining a biological sample (*e.g.* a cervical smear) from a test subject and contacting the biological sample with a compound or an agent capable of detecting the polypeptide or nucleic acid (*e.g.*, mRNA, genomic DNA, or cDNA). The detection methods of the invention can thus be used to detect mRNA, protein, cDNA, or genomic DNA, for example, in a biological sample *in vitro* as well as *in vivo*. For example, *in vitro*  
30 techniques for detection of mRNA include Northern hybridizations and *in situ* hybridizations. *In vitro* techniques for detection of a polypeptide corresponding to a marker of the invention include enzyme linked immunosorbent assays (ELISAs),

Western blots, immunoprecipitations, immunohistochemistry and immunofluorescence.

*In vitro* techniques for detection of genomic DNA include Southern hybridizations.

Furthermore, *in vivo* techniques for detection of a polypeptide corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the polypeptide. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

A general principle of such diagnostic and prognostic assays involves preparing a sample or reaction mixture that may contain a marker, and a probe, under appropriate conditions and for a time sufficient to allow the marker and probe to interact and bind, thus forming a complex that can be removed and/or detected in the reaction mixture. These assays can be conducted in a variety of ways.

For example, one method to conduct such an assay would involve anchoring the marker or probe onto a solid phase support, also referred to as a substrate, and detecting target marker/probe complexes anchored on the solid phase at the end of the reaction. In one embodiment of such a method, a sample from a subject, which is to be assayed for presence and/or concentration of marker, can be anchored onto a carrier or solid phase support. In another embodiment, the reverse situation is possible, in which the probe can be anchored to a solid phase and a sample from a subject can be allowed to react as an unanchored component of the assay.

There are many established methods for anchoring assay components to a solid phase. These include, without limitation, marker or probe molecules which are immobilized through conjugation of biotin and streptavidin. Such biotinylated assay components can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the surfaces with immobilized assay components can be prepared in advance and stored.

Other suitable carriers or solid phase supports for such assays include any material capable of binding the class of molecule to which the marker or probe belongs. Well-known supports or carriers include, but are not limited to, glass, polystyrene, nylon, polypropylene, nylon, polyethylene, dextran, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

In order to conduct assays with the above mentioned approaches, the non-immobilized component is added to the solid phase upon which the second component is anchored. After the reaction is complete, uncomplexed components may be removed (*e.g.*, by washing) under conditions such that any complexes formed will remain  
5 immobilized upon the solid phase. The detection of marker/probe complexes anchored to the solid phase can be accomplished in a number of methods outlined herein.

In a preferred embodiment, the probe, when it is the unanchored assay component, can be labeled for the purpose of detection and readout of the assay, either directly or indirectly, with detectable labels discussed herein and which are well-known  
10 to one skilled in the art.

It is also possible to directly detect marker/probe complex formation without further manipulation or labeling of either component (marker or probe), for example by utilizing the technique of fluorescence energy transfer (see, for example, Lakowicz *et al.*, U.S. Patent No. 5,631,169; Stavrianopoulos, *et al.*, U.S. Patent No. 4,868,103). A  
15 fluorophore label on the first, 'donor' molecule is selected such that, upon excitation with incident light of appropriate wavelength, its emitted fluorescent energy will be absorbed by a fluorescent label on a second 'acceptor' molecule, which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen  
20 that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay  
25 should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter).

In another embodiment, determination of the ability of a probe to recognize a marker can be accomplished without labeling either assay component (probe or marker) by utilizing a technology such as real-time Biomolecular Interaction Analysis (BIA)  
30 (see, *e.g.*, Sjolander, S. and Urbaniczky, C., 1991, *Anal. Chem.* 63:2338-2345 and Szabo *et al.*, 1995, *Curr. Opin. Struct. Biol.* 5:699-705). As used herein, "BIA" or "surface plasmon resonance" is a technology for studying biospecific interactions in real

time, without labeling any of the interactants (e.g., BIAcore). Changes in the mass at the binding surface (indicative of a binding event) result in alterations of the refractive index of light near the surface (the optical phenomenon of surface plasmon resonance (SPR)), resulting in a detectable signal which can be used as an indication of real-time reactions  
5 between biological molecules.

Alternatively, in another embodiment, analogous diagnostic and prognostic assays can be conducted with marker and probe as solutes in a liquid phase. In such an assay, the complexed marker and probe are separated from uncomplexed components by any of a number of standard techniques, including but not limited to: differential  
10 centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, marker/probe complexes may be separated from uncomplexed assay components through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., 1993, *Trends Biochem Sci.* 18(8):284-7).  
15 Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the  
20 relatively different charge properties of the marker/probe complex as compared to the uncomplexed components may be exploited to differentiate the complex from uncomplexed components, for example through the utilization of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, e.g., Heegaard, N.H., 1998, *J. Mol. Recognit.* Winter 11(1-  
25 6):141-8; Hage, D.S., and Tweed, S.A. *J Chromatogr B Biomed Sci Appl* 1997 Oct 10;699(1-2):499-525). Gel electrophoresis may also be employed to separate complexed assay components from unbound components (see, e.g., Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York, 1987-1999). In this technique, protein or nucleic acid complexes are separated based on size or  
30 charge, for example. In order to maintain the binding interaction during the electrophoretic process, non-denaturing gel matrix materials and conditions in the



absence of reducing agent are typically preferred. Appropriate conditions to the particular assay and components thereof will be well known to one skilled in the art.

In a particular embodiment, the level of mRNA corresponding to the marker can be determined both by *in situ* and by *in vitro* formats in a biological sample using  
5 methods known in the art. The term "biological sample" is intended to include tissues, cells, biological fluids and isolates thereof, isolated from a subject, as well as tissues, cells and fluids present within a subject. Many expression detection methods use isolated RNA. For *in vitro* methods, any RNA isolation technique that does not select against the isolation of mRNA can be utilized for the purification of RNA from cervical  
10 cells (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York 1987-1999). Additionally, large numbers of tissue samples can readily be processed using techniques well known to those of skill in the art, such as, for example, the single-step RNA isolation process of Chomczynski (1989, U.S. Patent No. 4,843,155).

15 The isolated mRNA can be used in hybridization or amplification assays that include, but are not limited to, Southern or Northern analyses, polymerase chain reaction analyses and probe arrays. One preferred diagnostic method for the detection of mRNA levels involves contacting the isolated mRNA with a nucleic acid molecule (probe) that can hybridize to the mRNA encoded by the gene being detected. The nucleic acid probe  
20 can be, for example, a full-length cDNA, or a portion thereof, such as an oligonucleotide of at least 7, 15, 30, 50, 100, 250 or 500 nucleotides in length and sufficient to specifically hybridize under stringent conditions to a mRNA or genomic DNA encoding a marker of the present invention. Other suitable probes for use in the diagnostic assays of the invention are described herein. Hybridization of an mRNA with the probe  
25 indicates that the marker in question is being expressed.

In one format, the mRNA is immobilized on a solid surface and contacted with a probe, for example by running the isolated mRNA on an agarose gel and transferring the mRNA from the gel to a membrane, such as nitrocellulose. In an alternative format, the probe(s) are immobilized on a solid surface and the mRNA is contacted with the  
30 probe(s), for example, in an Affymetrix gene chip array. A skilled artisan can readily adapt known mRNA detection methods for use in detecting the level of mRNA encoded by the markers of the present invention.

An alternative method for determining the level of mRNA corresponding to a marker of the present invention in a sample involves the process of nucleic acid amplification, *e.g.*, by rtPCR (the experimental embodiment set forth in Mullis, 1987, U.S. Patent No. 4,683,202), ligase chain reaction (Barany, 1991, *Proc. Natl. Acad. Sci. USA*, 88:189-193), self sustained sequence replication (Guatelli *et al.*, 1990, *Proc. Natl. Acad. Sci. USA* 87:1874-1878), transcriptional amplification system (Kwoh *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:1173-1177), Q-Beta Replicase (Lizardi *et al.*, 1988, *Bio/Technology* 6:1197), rolling circle replication (Lizardi *et al.*, U.S. Patent No. 5,854,033) or any other nucleic acid amplification method, followed by the detection of the amplified molecules using techniques well known to those of skill in the art. These detection schemes are especially useful for the detection of nucleic acid molecules if such molecules are present in very low numbers. As used herein, amplification primers are defined as being a pair of nucleic acid molecules that can anneal to 5' or 3' regions of a gene (plus and minus strands, respectively, or vice-versa) and contain a short region in between. In general, amplification primers are from about 10 to 30 nucleotides in length and flank a region from about 50 to 200 nucleotides in length. Under appropriate conditions and with appropriate reagents, such primers permit the amplification of a nucleic acid molecule comprising the nucleotide sequence flanked by the primers'.

For *in situ* methods, mRNA does not need to be isolated from the cervical cells prior to detection. In such methods, a cell or tissue sample is prepared/processed using known histological methods. The sample is then immobilized on a support, typically a glass slide, and then contacted with a probe that can hybridize to mRNA that encodes the marker.

As an alternative to making determinations based on the absolute expression level of the marker, determinations may be based on the normalized expression level of the marker. Expression levels are normalized by correcting the absolute expression level of a marker by comparing its expression to the expression of a gene that is not a marker, *e.g.*, a housekeeping gene that is constitutively expressed. Suitable genes for normalization include housekeeping genes such as the actin gene, or epithelial cell-specific genes. This normalization allows the comparison of the expression level in one sample, *e.g.*, a patient sample, to another sample, *e.g.*, a non-cervical cancer sample, or between samples from different sources.

Alternatively, the expression level can be provided as a relative expression level. To determine a relative expression level of a marker, the level of expression of the marker is determined for 10 or more samples of normal versus cancer cell isolates, preferably 50 or more samples, prior to the determination of the expression level for the sample in question. The mean expression level of each of the genes assayed in the larger number of samples is determined and this is used as a baseline expression level for the marker. The expression level of the marker determined for the test sample (absolute level of expression) is then divided by the mean expression value obtained for that marker. This provides a relative expression level.

10        Preferably, the samples used in the baseline determination will be from cervical cancer or from non-cervical cancer cells of cervical tissue. The choice of the cell source is dependent on the use of the relative expression level. Using expression found in normal tissues as a mean expression score aids in validating whether the marker assayed is cervical specific (versus normal cells). In addition, as more data is accumulated, the mean expression value can be revised, providing improved relative expression values based on accumulated data. Expression data from cervical cells provides a means for grading the severity of the cervical cancer state.

In another embodiment of the present invention, a polypeptide corresponding to a marker is detected. A preferred agent for detecting a polypeptide of the invention is an antibody capable of binding to a polypeptide corresponding to a marker of the invention, preferably an antibody with a detectable label. Antibodies can be polyclonal, or more preferably, monoclonal. An intact antibody, or a fragment thereof (*e.g.*, Fab or F(ab')<sub>2</sub>) can be used. The term "labeled", with regard to the probe or antibody, is intended to encompass direct labeling of the probe or antibody by coupling (*i.e.*, physically linking) a detectable substance to the probe or antibody, as well as indirect labeling of the probe or antibody by reactivity with another reagent that is directly labeled. Examples of indirect labeling include detection of a primary antibody using a fluorescently labeled secondary antibody and end-labeling of a DNA probe with biotin such that it can be detected with fluorescently labeled streptavidin.

30        Proteins from cervical cells can be isolated using techniques that are well known to those of skill in the art. The protein isolation methods employed can, for example, be such as those described in Harlow and Lane (Harlow and Lane, 1988, *Antibodies: A*

*Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York).

A variety of formats can be employed to determine whether a sample contains a protein that binds to a given antibody. Examples of such formats include, but are not  
5 limited to, enzyme immunoassay (EIA), radioimmunoassay (RIA), Western blot analysis, immunohistochemistry (IHC) and enzyme linked immunoabsorbant assay (ELISA). A skilled artisan can readily adapt known protein/antibody detection methods for use in determining whether cervical cells express a marker of the present invention.

In one format, antibodies, or antibody fragments, can be used in methods such as  
10 Western blots, IHC or immunofluorescence techniques to detect the expressed proteins. In such uses, it is generally preferable to immobilize either the antibody, proteins or cell containing proteins on a solid support. Well-known supports or carriers include glass, polystyrene, polypropylene, polyethylene, dextran, nylon, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

One skilled in the art will know many other suitable carriers for binding antibody  
15 or antigen, and will be able to adapt such support for use with the present invention. For example, protein isolated from cervical cells can be run on a polyacrylamide gel electrophoresis and immobilized onto a solid phase support such as nitrocellulose. The support can then be washed with suitable buffers followed by treatment with the  
20 detectably labeled antibody. The solid phase support can then be washed with the buffer a second time to remove unbound antibody. The amount of bound label on the solid support can then be detected by conventional means.

The invention also encompasses kits for detecting the presence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample (*e.g.* a  
25 cervical smear). Such kits can be used to determine if a subject is suffering from or is at increased risk of developing cervical cancer. For example, the kit can comprise a labeled compound or agent capable of detecting a polypeptide or an mRNA encoding a polypeptide corresponding to a marker of the invention in a biological sample and means for determining the amount of the polypeptide or mRNA in the sample (*e.g.*, an  
30 antibody which binds the polypeptide or an oligonucleotide probe which binds to DNA or mRNA encoding the polypeptide). Kits can also include instructions for interpreting the results obtained using the kit.

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For antibody-based kits, the kit can comprise, for example: (1) a first antibody (*e.g.*, attached to a solid support) which binds to a polypeptide corresponding to a marker of the invention; and, optionally, (2) a second, different antibody which binds to either the polypeptide or the first antibody and is conjugated to a detectable label.

- 5 For oligonucleotide-based kits, the kit can comprise, for example: (1) an oligonucleotide, *e.g.*, a detectably labeled oligonucleotide, which hybridizes to a nucleic acid sequence encoding a polypeptide corresponding to a marker of the invention or (2) a pair of primers useful for amplifying a nucleic acid molecule corresponding to a marker of the invention. The kit can also comprise, *e.g.*, a buffering agent, a
- 10 preservative, or a protein stabilizing agent. The kit can further comprise components necessary for detecting the detectable label (*e.g.*, an enzyme or a substrate). The kit can also contain a control sample or a series of control samples which can be assayed and compared to the test sample. Each component of the kit can be enclosed within an individual container and all of the various containers can be within a single package,
- 15 along with instructions for interpreting the results of the assays performed using the kit.

#### B. Pharmacogenomics

- Agents or modulators which have a stimulatory or inhibitory effect on expression of a marker of the invention can be administered to individuals to treat (prophylactically
- 20 or therapeutically) cervical cancer in the patient. In conjunction with such treatment, the pharmacogenomics (*i.e.*, the study of the relationship between an individual's genotype and that individual's response to a foreign compound or drug) of the individual may be considered. Differences in metabolism of therapeutics can lead to severe toxicity or therapeutic failure by altering the relation between dose and blood concentration of the
- 25 pharmacologically active drug. Thus, the pharmacogenomics of the individual permits the selection of effective agents (*e.g.*, drugs) for prophylactic or therapeutic treatments based on a consideration of the individual's genotype. Such pharmacogenomics can further be used to determine appropriate dosages and therapeutic regimens.
- Accordingly, the level of expression of a marker of the invention in an individual can be
- 30 determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual.

Pharmacogenomics deals with clinically significant variations in the response to drugs due to altered drug disposition and abnormal action in affected persons. See, *e.g.*, Linder (1997) *Clin. Chem.* 43(2):254-266. In general, two types of pharmacogenetic conditions can be differentiated. Genetic conditions transmitted as a single factor  
5 altering the way drugs act on the body are referred to as "altered drug action." Genetic conditions transmitted as single factors altering the way the body acts on drugs are referred to as "altered drug metabolism". These pharmacogenetic conditions can occur either as rare defects or as polymorphisms. For example, glucose-6-phosphate dehydrogenase (G6PD) deficiency is a common inherited enzymopathy in which the  
10 main clinical complication is hemolysis after ingestion of oxidant drugs (anti-malarials, sulfonamides, analgesics, nitrofurans) and consumption of fava beans.

As an illustrative embodiment, the activity of drug metabolizing enzymes is a major determinant of both the intensity and duration of drug action. The discovery of genetic polymorphisms of drug metabolizing enzymes (*e.g.*, N-acetyltransferase 2 (NAT  
15 2) and cytochrome P450 enzymes CYP2D6 and CYP2C19) has provided an explanation as to why some patients do not obtain the expected drug effects or show exaggerated drug response and serious toxicity after taking the standard and safe dose of a drug. These polymorphisms are expressed in two phenotypes in the population, the extensive metabolizer (EM) and poor metabolizer (PM). The prevalence of PM is different among  
20 different populations. For example, the gene coding for CYP2D6 is highly polymorphic and several mutations have been identified in PM, which all lead to the absence of functional CYP2D6. Poor metabolizers of CYP2D6 and CYP2C19 quite frequently experience exaggerated drug response and side effects when they receive standard doses. If a metabolite is the active therapeutic moiety, a PM will show no therapeutic  
25 response, as demonstrated for the analgesic effect of codeine mediated by its CYP2D6-formed metabolite morphine. The other extreme are the so called ultra-rapid metabolizers who do not respond to standard doses. Recently, the molecular basis of ultra-rapid metabolism has been identified to be due to CYP2D6 gene amplification.

Thus, the level of expression of a marker of the invention in an individual can be  
30 determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual. In addition, pharmacogenetic studies can be used to apply genotyping of polymorphic alleles encoding drug-metabolizing enzymes to the

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identification of an individual's drug responsiveness phenotype. This knowledge, when applied to dosing or drug selection, can avoid adverse reactions or therapeutic failure and thus enhance therapeutic or prophylactic efficiency when treating a subject with a modulator of expression of a marker of the invention.

5        This invention also provides a process for preparing a database comprising at least one of the markers set forth in Tables 1-4. For example, the polynucleotide sequences are stored in a digital storage medium such that a data processing system for standardized representation of the genes that identify a cervical cancer cell is compiled. The data processing system is useful to analyze gene expression between two cells by  
10   first selecting a cell suspected of being of a neoplastic phenotype or genotype and then isolating polynucleotides from the cell. The isolated polynucleotides are sequenced. The sequences from the sample are compared with the sequence(s) present in the database using homology search techniques. Greater than 90%, more preferably greater than 95% and more preferably, greater than or equal to 97% sequence identity between  
15   the test sequence and the polynucleotides of the present invention is a positive indication that the polynucleotide has been isolated from a cervical cancer cell as defined above.

      In an alternative embodiment, the polynucleotides of this invention are sequenced and the information regarding sequence and in some embodiments, relative expression, is stored in any functionally relevant program, *e.g.*, in Compare Report using  
20   the SAGE software (available through Dr. Ken Kinzler at John Hopkins University). The Compare Report provides a tabulation of the polynucleotide sequences and their abundance for the samples normalized to a defined number of polynucleotides per library (say 25,000). This is then imported into MS-ACCESS either directly or via copying the data into an Excel spreadsheet first and then from there into MS-ACCESS  
25   for additional manipulations. Other programs such as SYBASE or Oracle that permit the comparison of polynucleotide numbers could be used as alternatives to MS-ACCESS. Enhancements to the software can be designed to incorporate these additional functions. These functions consist in standard Boolean, algebraic, and text search operations, applied in various combinations to reduce a large input set of  
30   polynucleotides to a manageable subset of a polynucleotide of specifically defined interest.

One skilled in the art may create groups containing one or more project(s) by combining the counts of specific polynucleotides within a group (e.g., GroupNormal = Normal1 + Normal2, GroupTumor1 + TumorCellLine). Additional characteristic values are also calculated for each tag in the group (e.g., average count, minimum count, maximum count). One skilled in the art may calculate individual tag count ratios between groups, for example the ratio of the average GroupNormal count to the average GroupTumor count for each polynucleotide. A statistical measure of the significance of observed differences in tag counts between groups may be calculated.

#### 10            C. Monitoring Clinical Trials

Monitoring the influence of agents (e.g., drug compounds) on the level of expression of a marker of the invention can be applied not only in basic drug screening, but also in clinical trials. For example, the effectiveness of an agent to affect marker expression can be monitored in clinical trials of subjects receiving treatment for cervical cancer. In a preferred embodiment, the present invention provides a method for monitoring the effectiveness of treatment of a subject with an agent (e.g., an agonist, antagonist, peptidomimetic, protein, peptide, nucleic acid, small molecule, or other drug candidate) comprising the steps of (i) obtaining a pre-administration sample from a subject prior to administration of the agent; (ii) detecting the level of expression of one or more selected markers of the invention in the pre-administration sample; (iii) obtaining one or more post-administration samples from the subject; (iv) detecting the level of expression of the marker(s) in the post-administration samples; (v) comparing the level of expression of the marker(s) in the pre-administration sample with the level of expression of the marker(s) in the post-administration sample or samples; and (vi) altering the administration of the agent to the subject accordingly. For example, increased administration of the agent can be desirable to increase expression of the marker(s) to higher levels than detected, i.e., to increase the effectiveness of the agent. Alternatively, decreased administration of the agent can be desirable to decrease expression of the marker(s) to lower levels than detected, i.e., to decrease the effectiveness of the agent.



#### D. Surrogate Markers

The markers of the invention may serve as surrogate markers for one or more disorders or disease states or for conditions leading up to disease states, and in particular, cervical cancer. As used herein, a "surrogate marker" is an objective  
5 biochemical marker which correlates with the absence or presence of a disease or disorder, or with the progression of a disease or disorder (*e.g.*, with the presence or absence of a tumor). The presence or quantity of such markers is independent of the disease. Therefore, these markers may serve to indicate whether a particular course of treatment is effective in lessening a disease state or disorder. Surrogate markers are of  
10 particular use when the presence or extent of a disease state or disorder is difficult to assess through standard methodologies (*e.g.*, early stage tumors), or when an assessment of disease progression is desired before a potentially dangerous clinical endpoint is reached (*e.g.*, an assessment of cardiovascular disease may be made using cholesterol levels as a surrogate marker, and an analysis of HIV infection may be made using HIV  
15 RNA levels as a surrogate marker, well in advance of the undesirable clinical outcomes of myocardial infarction or fully-developed AIDS). Examples of the use of surrogate markers in the art include: Koomen *et al.* (2000) *J. Mass. Spectrom.* 35: 258-264; and James (1994) *AIDS Treatment News Archive* 209.

The markers of the invention are also useful as pharmacodynamic markers. As  
20 used herein, a "pharmacodynamic marker" is an objective biochemical marker which correlates specifically with drug effects. The presence or quantity of a pharmacodynamic marker is not related to the disease state or disorder for which the drug is being administered; therefore, the presence or quantity of the marker is indicative of the presence or activity of the drug in a subject. For example, a  
25 pharmacodynamic marker may be indicative of the concentration of the drug in a biological tissue, in that the marker is either expressed or transcribed or not expressed or transcribed in that tissue in relationship to the level of the drug. In this fashion, the distribution or uptake of the drug may be monitored by the pharmacodynamic marker. Similarly, the presence or quantity of the pharmacodynamic marker may be related to  
30 the presence or quantity of the metabolic product of a drug, such that the presence or quantity of the marker is indicative of the relative breakdown rate of the drug *in vivo*. Pharmacodynamic markers are of particular use in increasing the sensitivity of detection

of drug effects, particularly when the drug is administered in low doses. Since even a small amount of a drug may be sufficient to activate multiple rounds of marker transcription or expression, the amplified marker may be in a quantity which is more readily detectable than the drug itself. Also, the marker may be more easily detected

5 due to the nature of the marker itself; for example, using the methods described herein, antibodies may be employed in an immune-based detection system for a protein marker, or marker-specific radiolabeled probes may be used to detect a mRNA marker. Furthermore, the use of a pharmacodynamic marker may offer mechanism-based prediction of risk due to drug treatment beyond the range of possible direct

10 observations. Examples of the use of pharmacodynamic markers in the art include: Matsuda *et al.* US 6,033,862; Hattis *et al.* (1991) *Env. Health Perspect.* 90: 229-238; Schentag (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S21-S24; and Nicolau (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S16-S20.

The markers of the invention are also useful as pharmacogenomic markers. As

15 used herein, a "pharmacogenomic marker" is an objective biochemical marker which correlates with a specific clinical drug response or susceptibility in a subject (see, e.g., McLeod *et al.* (1999) *Eur. J. Cancer* 35(12): 1650-1652). The presence or quantity of the pharmacogenomic marker is related to the predicted response of the subject to a specific drug or class of drugs prior to administration of the drug. By assessing the

20 presence or quantity of one or more pharmacogenomic markers in a subject, a drug therapy which is most appropriate for the subject, or which is predicted to have a greater degree of success, may be selected. For example, based on the presence or quantity of RNA or protein for specific tumor markers in a subject, a drug or course of treatment may be selected that is optimized for the treatment of the specific tumor likely to be

25 present in the subject. Similarly, the presence or absence of a specific sequence mutation in marker DNA may correlate with drug response. The use of pharmacogenomic markers therefore permits the application of the most appropriate treatment for each subject without having to administer the therapy.

## VII. Experimental Protocol

### A. Subtracted Libraries

Subtracted libraries are generated using a PCR based method that allows the  
5 isolation of clones expressed at higher levels in one population of mRNA (tester)  
compared to another population (driver). Both tester and driver mRNA populations are  
converted into cDNA by reverse transcription, and then PCR amplified using the  
SMART PCR kit from Clontech. Tester and driver cDNAs are then hybridized using  
the PCR-Select cDNA subtraction kit from Clontech. This technique results in both  
10 subtraction and normalization, which is an equalization of copy number of low-  
abundance and high-abundance sequences. After generation of the subtractive libraries,  
a group of 96 or more clones from each library is tested to confirm differential  
expression by reverse Southern hybridization.

SEQ ID NOS: 1-705 were identified through the above-described subtractive  
15 library hybridization technique, wherein the "tester" source for the subtracted libraries  
was comprised of cDNA generated from four independent stage IB cervical tumors.  
The "driver" source for the subtracted libraries was comprised of cDNA generated from  
at least three independent samples of normal ectocervix that were manually dissected to  
isolate the epithelial component of the tissue. In some cases, the driver also included  
20 cDNA generated from B-lymphocytes, T-lymphocytes, and other white blood cells, in  
activated and resting states.

SEQ ID NOS: 706-1428 were also identified through the above-described  
subtractive library hybridization technique, wherein the "tester" source for the  
subtracted libraries was comprised of cDNA generated from four independent CINIII  
25 cervical samples. The "driver" source for the subtracted library was comprised of  
cDNA generated from six independent normal ectocervix samples that were manually  
dissected to isolate the epithelial components. The "driver" source also includes cDNA  
generated from B-lymphocytes, T-lymphocytes, and other white blood cells, in activated  
and resting states.

### B. Proteomics

Proteins that are secreted by normal and transformed cells in culture are analyzed to identify those proteins that are likely to be secreted by cancerous cells into body fluids. Supernatants are isolated and MWT-CO filters are used to simplify the mixture of proteins. The proteins are then digested with trypsin. The tryptic peptides are loaded onto a microcapillary HPLC column where they are separated, and eluted directly into an ion trap mass spectrometer, through a custom-made electrospray ionization source. Throughout the gradient, sequence data is acquired through fragmentation of the four most intense ions (peptides) that elute off the column, while dynamically excluding those that have already been fragmented. In this way, approximately 2000 scans worth of sequence data are obtained, corresponding to approximately 50 to 200 different proteins in the sample. These data are searched against databases using correlation analysis tools, such as MS-Tag, to identify the proteins in the supernatants.

### VIII . Summary Of The Data Provided In The Tables

Table 1 shows 1428 novel nucleotide sequences identified through subtracted library experiments. These 1428 novel sequences were determined to be novel through various BLAST searches of available databases. The sequences of Table 1 were reinterpreted and those sequences are set forth in Tables 2 and 3. Table 4 sets forth additional sequence (*e.g.*, full-length sequences) for the sequences of Tables 1-3.

The contents of all references, patents, published patent applications, and databases cited throughout this application are hereby incorporated by reference.

### Other Embodiments

Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention described herein. Such equivalents are intended to be encompassed by the following claims.

What is claimed is:

Claims

1. An isolated nucleic acid molecule selected from the group consisting of:
  - a) a nucleic acid molecule comprising a nucleotide sequence which  
5 is at least 90% homologous to a nucleotide sequence of Tables 1-4, or a  
complement thereof;
  - b) a nucleic acid molecule comprising a fragment of a nucleic acid  
comprising the nucleotide sequence of Tables 1-4, or a complement thereof; and
  - c) a nucleic acid molecule comprising the nucleotide sequence of  
10 Tables 1-4, or a complement thereof.
2. A vector which contains the nucleic acid molecule of claim 1.
3. A host cell which contains the nucleic acid molecule of claim 1.  
15
4. An isolated polypeptide which is encoded by a nucleic acid molecule  
comprising a nucleotide sequence which is at least 90% homologous to a nucleic  
acid comprising a nucleotide sequence of Tables 1-4.
- 20 5. An antibody which selectively binds to a polypeptide of claim 4.
6. A method for producing a polypeptide comprising culturing the host cell  
of claim 3 under conditions in which the nucleic acid molecule is expressed.
- 25 7. A method for detecting the presence of a polypeptide of claim 4 in a  
sample comprising:
  - a) contacting the sample with a compound which selectively binds to the  
polypeptide; and
  - b) determining whether the compound binds to the polypeptide in the  
30 sample to thereby detect the presence of a polypeptide of claim 4 in the sample.

8. A kit comprising a compound which selectively binds to the polypeptide of claim 4.
- 5 9. A method for detecting the presence of a nucleic acid molecule of claim 1 in a sample comprising:
- a) contacting the sample with a nucleic acid probe or primer which selectively hybridizes to the nucleic acid molecule; and
  - b) determining whether the nucleic acid probe or primer binds to a nucleic
- 10 acid molecule in the sample to thereby detect the presence of a nucleic acid molecule of claim 1 in the sample.
10. The method of claim 9, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe.
- 15 11. The method of claim 9, wherein the sample is isolated from cervical tissue.
12. The method of claim 9, wherein the sample is a tumor sample.
- 20 13. A kit comprising a compound which selectively hybridizes to a nucleic acid molecule of claim 1.
14. A method of assessing whether a patient is afflicted with cervical cancer or has a pre-malignant condition, the method comprising comparing:
- 25 a) the level of expression of a marker in a patient sample, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4, and
- b) the normal level of expression of the marker in a control non-cervical cancer sample,
- 30 wherein a significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer or has a pre-malignant condition.

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15. The method of claim 14, wherein the patient has CIN.
16. The method of claim 14, wherein the patient has SIL.
- 5 17. The method of claim 14, wherein the marker corresponds to a secreted protein.
18. The method of claim 14, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.
- 10 19. The method of claim 14, wherein the sample comprises cells obtained from the patient.
20. The method of claim 19, wherein the sample is a cervical smear.
- 15 21. The method of claim 19, wherein the cells are in a fluid selected from the group consisting of a fluid collected by peritoneal rinsing, a fluid collected by uterine rinsing, a uterine fluid, a uterine exudate, a pleural fluid, a cystic fluid, and an cervical exudate.
- 20 22. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a protein corresponding to the marker.
- 25 23. The method of claim 17, wherein the presence of the protein is detected using a reagent which specifically binds with the protein.
24. The method of claim 23, wherein the reagent is selected from the group consisting of an antibody, an antibody derivative, and an antibody fragment.
- 30

25. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide or portion thereof, wherein the transcribed polynucleotide comprises the marker.
- 5 26. The method of claim 25, wherein the transcribed polynucleotide is an mRNA.
27. The method of claim 25, wherein the transcribed polynucleotide is a  
10 cDNA.
28. The method of claim 25, wherein the step of detecting further comprises amplifying the transcribed polynucleotide.
- 15 29. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide which anneals with the marker or anneals with a portion of a polynucleotide wherein the polynucleotide comprises the marker, under stringent hybridization conditions.
- 20 30. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with cervical cancer by a factor of at least about 2.
- 25 31. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with cervical cancer by a factor of at least about 5.



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32. The method of claim 14, comprising comparing:
- a) the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-4, and
  - b) the normal level of expression of each of the plurality of markers in
- 5 samples of the same type obtained from control humans not afflicted with cervical cancer,

wherein the level of expression of more than one of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with cervical cancer or a pre-

10 malignant condition.

33. The method of claim 32, wherein the level of expression of each of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with cervical
- 15 cancer.

34. The method of claim 32, wherein the plurality comprises at least three of the markers.

- 20 35. The method of claim 32, wherein the plurality comprises at least five of the markers.

36. A method for monitoring the progression of cervical cancer or a pre-malignant condition in a patient, the method comprising:
- 25 a) detecting in a patient sample at a first point in time, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4;
- b) repeating step a) at a subsequent point in time; and
  - c) comparing the level of expression detected in steps a) and b), and
- 30 therefrom monitoring the progression of cervical cancer or a pre-malignant condition in the patient.

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37. The method of claim 36, wherein the marker corresponds to a secreted protein.

38. The method of claim 36, wherein marker corresponds to a transcribed  
5 polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

39. The method of claim 36, wherein the sample comprises cells obtained from the patient.

10 40. The method of claim 39, wherein the patient sample is a cervical smear.

41. The method of claim 39, wherein between the first point in time and the subsequent point in time, the patient has undergone surgery to remove a tumor.

15 42. A method of assessing the efficacy of a test compound for inhibiting cervical cancer in a patient, the method comprising comparing:

a) expression of a marker in a first sample obtained from the patient and exposed to the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4, and

20 b) expression of the marker in a second sample obtained from the patient, wherein the sample is not exposed to the test compound,  
wherein a significantly lower level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting cervical cancer in the patient.

25

43. The method of claim 42, wherein the first and second samples are portions of a single sample obtained from the patient.

44. The method of claim 42, wherein the first and second samples are  
30 portions of pooled samples obtained from the patient.

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45. A method of assessing the efficacy of a therapy for inhibiting cervical cancer in a patient, the method comprising comparing:

- a) expression of a marker in the first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is  
5 selected from the group consisting of the markers listed in Tables 1-4, and
- b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy,  
wherein a significantly lower level of expression of the marker in the  
second sample, relative to the first sample, is an indication that the therapy is efficacious  
10 for inhibiting cervical cancer in the patient.

46. A method of selecting a composition for inhibiting cervical cancer in a patient, the method comprising:

- a) obtaining a sample comprising cancer cells from the patient;
- 15 b) separately exposing aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4; and
- d) selecting one of the test compositions which induces a lower level of  
20 expression of the marker in the aliquot containing that test composition, relative to other test compositions.

47. A method of inhibiting cervical cancer in a patient, the method comprising:

- 25 a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4; and
- 30 d) administering to the patient at least one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

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48. A kit for assessing whether a patient is afflicted with cervical cancer or a pre-malignant condition, the kit comprising reagents for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-4.
- 5        49. A kit for assessing the presence of cervical cancer cells or pre-malignant cervical cells or lesions, the kit comprising a nucleic acid probe wherein the probe specifically binds with a transcribed polynucleotide corresponding to a marker selected from the group consisting of the markers listed in Tables 1-4.
- 10       50. A kit for assessing the suitability of each of a plurality of compounds for inhibiting cervical cancer in a patient, the kit comprising:
- a) the plurality of compounds; and
  - b) a reagent for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-4.
- 15       51. A method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer or a pre-malignant condition, the method comprising:
- isolating a protein or protein fragment corresponding to a marker selected
  - 20 from the group consisting of the markers listed in Tables 1-4;
  - immunizing a mammal using the isolated protein or protein fragment;
  - isolating splenocytes from the immunized mammal;
  - fusing the isolated splenocytes with an immortalized cell line to form
  - hybridomas; and
  - 25 screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma.
52. An antibody produced by a hybridoma made by the method of claim 51.

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53. A kit for assessing the presence of human cervical cancer cells or pre-malignant cervical cells or lesions, the kit comprising an antibody, wherein the antibody specifically binds with a protein corresponding to a marker selected from the group consisting of the markers listed in Tables 1-4.

5

54. A method of assessing the cervical cell carcinogenic potential of a test compound, the method comprising:

a) maintaining separate aliquots of cervical cells in the presence and absence of the test compound; and

10 b) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4,

wherein a significantly enhanced level of expression of the marker in the aliquot maintained in the presence of the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound

15 possesses human cervical cell carcinogenic potential.

55. A kit for assessing the cervical cell carcinogenic potential of a test compound, the kit comprising cervical cells and a reagent for assessing expression of a marker, wherein the marker is selected from the group consisting of the markers listed in

20 Tables 1-4.

56. A method of treating a patient afflicted with cervical cancer, the method comprising providing to the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker selected from the markers listed in Tables 1-4.

25

57. A method of inhibiting cervical cancer in a patient at risk for developing cervical cancer, the method comprising inhibiting expression of a gene corresponding to a marker selected from the markers listed in Tables 1-4.

Table 1

## Sequence 1

GCCGAGGTACTTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAATTTGGAATTATAT  
GTTATGGTAGAATAAAGATCGAGGTCCATTTTCTATACATGAAAANTTAAATATTTAG  
T  
TTGGGATTTGAGACTTCGATCTAGGCCTCTGNATTTCTTTCTAGTTTTTCCCTACCAT  
T  
CTTTAATCGGAGTATCCAAGCCCAATCACCCCTGTANCCTATGTCCTAAAGCATCTTGAAT  
TGNTTGNITCANGTTTTTNCCTTCATGNAGGAGTGTCTTTTGCNCACNCCTCTTAAGCC  
TA  
TCTGGATCCCCACTTCANNCTCTGAAGGGTTCTGTAAAANTTCTAACCCCTATCTNT  
AT  
NGAATTTGTCCCC

## Sequence 2

GCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTC  
CGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCT  
TTTGAGGTCCCACGAGAATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCTTGTCTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAG  
CATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGG  
AATCTAACTCAGCGGAATTGTATCCGTACCT

## Sequence 3

CGGAGAGGAGTCCTTACTTAGAGTNAAGCTGAAGGAGCATCACAACCCCAAAGACTGTTA  
TGTTGTGAAATTTAGGCTGTGTTTTAATAATACTGATGATGATANGATGAAATAGTAAT  
T  
TATTGATTACTATATCTACTATATGTCCGTAAGATAGCAGGGTCTTTATACTCGGAATC  
T  
CATTTGATCCTCATAGTTTTTATTGGTGTATTATTATCCTCATTTTACAGATACAGAAAC  
TGAGGCTTCAGAGAGGCTGTGTAATCAAGAGTTTGTATGCCTTTTCATCTGAGGAGGTTGA  
GGACAATCCCAAGTTAGAAAAATAAATGTCTTTAGCATTATTTTCTTAATGTTTAGAA  
TATTAATAAGTTACTCAGATAATCTATTGGAATTTTCTTCATGGCAGGGGGAAGAGGCTA  
GAGTTG  
G

## Sequence 4

TACTCAGTTTCCTTATCTATAACATGGGGATAATATTANGTATGCTACATCCGTTGTTA  
T  
GAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTTCTTNTACTAAATGGGNAAGG  
TCTGGCNGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAGGCTGAGGNGGGG  
GCAGTTGGGGAGCGAGGGGTTGTACTACTNCAATGTAACCTTGCTTTCTCAGAAATTNAGG  
CNAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAAACAGTCTCNTGCCTTT  
AAGGAGCTTATAGTCTAGTTANGAAACCAGACTTAAACATATGAAAAGTTTAAACATTGG

## Sequence 5

CTCTTTCATTGAAAGGAAATTANGGTTGAACCTCCAGGAGCCCGTCAGAGTCTGAGGAGA  
GGCTGGCTTNATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATTGC  
CTTTCATACCGGACTCTCCTTTGCAGCTGCCCTGGTGATCTCATCAGTCAGCATGTC  
TC  
TAACCCAGAGCCAGGCTGTGCTTTTTTTGTACCT

## Sequence 6

CGCGGTGGCGGCCGCCGGGCGGAGGTACCTATGACCATCTTACATTATTTTTATGGGTGGG  
GGGCATTGGCTGTGGAATGTGGGCAGTAACCTGCACAGTCAGTAACCGTNNAGTAAGT  
GTTGTTGGCATCCCCATTCTGGCACTCCTCCTCTAGGTCTCCACCTCACACGCTGGTTTG  
TGGGCGGAGGGGCGAGGTTGGTGCCGTGGGGTGTCCGGGCACTGGCTGTGCATGCCTTCTT  
CCTCTTCTGTCTCTTGGCCACCTTTTCCAAAAAGTCACCAGTGACCAATTCTCCAGT

Table 1

GT  
TTCTTTGGGACTCAATGCCTTGGGCTTGGCATTGGGTAAAGCCGACTGGCAAGTTTCATT  
CTGACCAAGCTCTATAGTAGTCCGGNGTGGACCTCTTGCCCTCCCTGCTCTGCGGAAAGC  
TTNCTCAGCCTTTGCTTCTTCACTTATTTACTATTTGCGGGGTCTGGGGGTACCCCTC  
GG  
NCGCTCTAGAACTAAGTGGGATCCCCCGGGCTGCAAGGAATTGCAATATCAAGCCTTA  
TCGAATCCGTCNAACCTTCGAAGGGGG  
Sequence 7  
GGTGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCC  
ATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGAC  
TCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAGTTT  
GGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATC  
ATAGTTTCTTGGAACCTCTGTAAAGTCCAACCTGGTTTCGCGGACATAATTGTCCGGA  
TT  
CCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC  
Sequence 8  
AGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAAC  
CAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT  
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACC  
ATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGA  
GAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAAC  
TCAGCGGAATTGTATCCGTACCTCGGCCGTTCTANACTAGGGGATCCCCCGGCC  
Sequence 9  
GGTGGCGGCCGAGGTACCACATGCACTGATAGCTCTCTTTGTATGAACAGGAGCTGTGGC  
AGGCCCTATGCCAGGGAGAAAGTAAGATTGGAAAAGAGCTTACCAAGGAGGTGGCATTG  
CACTGTGCTTAAGGGGCAAGAAAACGTCTTCCAATCAGGAGCCACAAATGCTTGGCTGA  
AGTGCTACTGCTCTTTCATCCTGGAGCTGGAACAGACGTCAACAGTCAATCATGATGGCT  
GCTGGGTGCACTGGCTAACATCTATAATCCCAGCACTTTGTGAGGCTGAGGGTGGGAAGA  
TTGCTTGGGGCCAGGAGTTTGAGACCACTTTTGGGCAAATTGCAAGACCCTGTCTCTGCA  
AAAAAATATAAAATGTAGCTGAGTGTGGTGGCACCTGTAGACCCAGCCCCAGCTACTCGA  
GAGGCTGAGATGGGAGGATCGCTTGGGCCTAGGAGTTGAGGCTGCAGTGAGCTATGATT  
GCACCACTGCACTCCAGCCTNGGTGACAGAACANGACCTGTCTNTAAAAANCAATTAATT  
AAATCAAAAAAAAAAAAAAAAAAAG  
Sequence 10  
GGTGGCGGCCGAACATCCTGTTTAACTAGCACAGACAAAACCTATGTGTTACTATCAAA  
ATAAAATTTAGAAAAACAATTTCTTATAAAATTTCTGTTTGTATTTGGACTACATAAA  
CTGGCTTTAAATGAGAAATATGCCCTAAACCATAAGGAAAAAGCCAACAGAAAGAAC  
AAAAAGATCACAGCAATTAGGCCCGTTCTATTCAATTTTGCCATGAGCTAAAAATCACAT  
TCTTCACAAAGTAAATTACCGCCCTGTTTTTATTCTTAAGCACTAGGGTTAGGATTGT  
G  
ATCTGAGCTTTACTAAATCGGAAAAGAAAACTCAATTATAGAACATTTAGTTTATTTAT  
ACCTTAATGCCCGGAGAGGTAATATTTTACTTTAAATGCATAACCCATGTGGACATGCT  
AGGTCTTCCAAA  
Sequence 11  
GGTGGGGCCGGGCCCGGACCCGGNCCAAGACCTACCCGCCGGNGNANTTGGCCTNNGGCC  
CTGGGGTTTCTCCCNAGGGGAAGCCTTGTAAGATCCACCTNGGAAANCCTTGTTNNGGTN  
CCGCTTGCCCCGTNGNATGGNTGGNGTAGGGGAAGGGCAAAGTACGCCTTCAAGAATAGG  
NAAAAAGGGANGGGGGGGGGNACCACTCAAGGCCTGGCAAAGGCCAAGTGGGACCAAG  
TGGCCCAAGGGGGCTTCTTGGAAATGGTGGNTCTCTACAAGCTTTGTAANAAAGTGGTG  
GAAGAACCAAGCCTTGNCCTTTTGTGGGTGCGNGACCTTGAATAAAGGGCCAAAAGG

Table 1

AAGTTTGGTTTCCCTTGGCCCCNTTTTTCCCTTNTTGNTTGGAACCTTTTGGGAAA

A

GAAAACCCCCCTTGGGACCTTTTTTGGTTTTTTCCTTTGGCNAAAAAGGGGGCCACCCC

TTGGCCAAATTGGATGGTTCCTTGNATTGGTTTTCCGGTCGCTTANGGGGCCAATT

NA

NAANTTGGTTTGTAAAGGGGAAAG

Sequence 12

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTGTTTGTATTTTAGTAG

AGATGGGGTTTACCCTGTTGGCCGGGCTGGTCTTGAACCTTGATTTCAGTGATCCGT

CCACCTCAGCCTCCCAATGTGCTGGGATTACAGGTGTGAGCCACCATGCCTGGCCTTTTT

CTTTTTTTTTTAAACGAAAAAATGTTTTAATTGACAAATAAAATGATGTATATTTA

TGGTGTTTTTTCTCTTTTGCATCATCAGTCTCTTCTCATCACTGAAACCTACAAATATT

TTAAATCTTTCATTAAAAAATTTTGCTGATCATTCAACCTCTTCAAATTATTAAGAG

ATACTTACTTTGTATGAAAAATTTGTCGAGATGTATAATCCATTTTTTCTGGGAAG

Sequence 13

TTACTTAGGGCGAATTGCGNCCGAGGTACCAGGTGTCATTCTGCAGCAGGATTTAACAC

GATGCAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATCAGACTTAAAGAAGGAA

AGACCTGATTTGACTGCTGTTGGTTTGGTAGTGTTCCCTGATCCGGAGCCAGTTTGTGG

GAGGGAGTCCCAAAGCAGGTTTGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGACAAA

ACAGTAGAATCGTACCTGCCCG

Sequence 14

TGGCGGCCGAGGTACGGTATTCTCTTCAAACAAGAGCAAGCCCATGATGATGCCATTTGG

TCAGTTGCTTGGGGACAAACAAGAAGGAAAACCTCTGAGACAGTGGTCACAGGCTCCCTA

GATGACCTGGTGAAGGTCTGGAAATGGCGTGATGAGAGGCTGGACCTGCAGTGGAGTCTG

GAGGGACATCAGCTGGGAGTGGTGTCTGTGGGACATCAGCCACACCCTGCCCATTTGCTGC

ATCCAGCTCTNTTGATGCTCATATTCGTCTTTGGGACTTGGAAAATGGCAAACAGATAAA

GTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTTCTCCTGATTCCCAGTN

TCTGGCCACAGGAACTCATGTCGGAANGTGAACATTTTTGGTGTGGAAAGNNGGAAAAA

GGAA

Sequence 15

GCCCCTGCCCGGCTGGTTATGTAACAAACAAAGTCTGTGTCTGTGTGGAGTGTTCAGGA

CGAGTGGAAATGACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGG

TTCCAGTGCCTCTCCGATGGAGAAGTATCTTGTAAAGGAAGCAACTCCATAAAAAGGGTC

AGAAAGTCTGTTGACCGATCACTTCTTTCTTGGATAACTGTCTGCGGCTGCAGGAAGAG

TCAGAGGTTCTTCAGAAGAGTGTGATCATTGGAGTGATTGAAGGTGGAGATGTGATGGAA

GAGAGGCTGAGGTCAGCACGAGAGACAGCCAAGCGGCCTGTGGGTGGCTTCTTCTGGATG

GTTTTCAAGGAAATCCAACA

Sequence 16

CGGTGGCGGCCGCCCGGGCAGGACGCGGGAAGAGGTAATTTAATGCCATTTTCATGGGA

CACTTGGGAGCTAGATTAGAAGAAGCCAAGACTAGAATCGGGGAGATGAGTTGCAGAGGG

NNGTGGTGAAGGTCTGAAGGAAGGTAGGAAAAGGTGCGACACATTCCAGACATATTTAGG

GGTGGAGGTGGTTGGATATGGGGAGTT

Sequence 17

TTGCGGTGGCCCCGGCCGCCCGGGCAGGTGACTTTAGTCCTCACTCTGTGGGCAGGGGCA

TTACAGCATAGGGGTCCCTTTTGTGAGGGATTTATGATGGCATCACACGCAGGATTGAGA

GAGCATNAATTGAAAAATACATATGATTGGCTGGGCGTGGAGGCTTATGCCTGTAATCCC

AGCACTTTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTCGGGAGTTTCGAGACCAGTCTG

ACCAACATGGAGAAACCTTTCTCTACTAAAAATACAAAATTAGCCGGGCGTGGTGGCAC

ATGCCTGTAATCCCAGCTACTAGGGAGGCTGAGGCAGGAGAATTGCTTGAACC



Table 1

## Sequence 18

TNCCGCGGTGGCGGCCGAGGTACGATTCTACTGTTTTGTCTTCTAGGATCAACTCGGTCA  
TTACCACAGCTCAAACCTGCTTTGGGACTCCCTCCCACAAAAGTGGCTCCGGATCAGGGA  
ACACTACCAAACCAACAGCAGTCAAATCAGGTCTTCTCTTTAAGTCTGATACCATT  
A  
ACACAGATGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGAATGACA  
CCTGGTACCTGCCCCG

## Sequence 19

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTATTTTTTTTTT  
T  
TTTTTTTTTTTTTNNCCCCGGGAGAGGAATTGGGAAGAGCAAATTGCTGCTGAAAATT  
TC  
TACATTGATCCAGACAAACAAGTTAGAGCAGGCTGAAAAAGAACCCTTGGTGTTTTTCTG  
TGTTCAACCAGATCAACTGGAAAAGTATAGATACCTTAATTAGCACTGTGCTCTGNGGGA  
TTCTGGTCAGCCTGGCCAGTGGTTTTTTCCCTGAACACNCCTGAAAGGGGAGCTCAT  
AATGACTGCTGTGCAGGTGGGCGGGGAGGGGGCTTCTATTGATTTAGNGGCTGATCAA  
TGCCAGTTACCAATTNTNGGTNGCCCCATTATACATGGNGGAAAAAAGTACCT

## Sequence 20

GAGGTACCCAATTTTTTAAGTTCTAAGGTAGCTTTCTCAAAGAAAACCATTTCAGGGT  
G  
TCCATTAAGAGCATCTGCGAATTGTTTTGCAGGGACTCCTAATCAGTCAGGAGAAGT  
AGAATGTAAGCAAAGTCACAAACCTCCCGTAAGAATTTGGTTCACCAGGACACAGCTCCT  
CTCTTATGAAGGGATGAGAAGCAGACCCCAAACCCAGTGCCACAGTCTCCCTGGAAACAG  
CAGCAGGCTTGGGGAATGCTTCCAAAAGGCTATGCCATTCAAGGTCTCAGGTTTTTGGT  
TAAAAATACAACCTAGGCCAACTGCAAGTGGCTCATGCCTGTAATTAATCCAAC

## Sequence 21

GTGGCGGCCGAGGTACGATTCTACTGTTTTGTCTTCTAGGATCAACTCGGTCAATTACCAC  
AGCTCAAACCTGCTTTGGGACTCCCTCCCACAAAAGTGGCTCCGGATCAGGGAACACTAC  
CAAACCAACAGCAGTCAAATCAGGTCTTCTCTTTAAGTCTGATACCATTAAACACAGA  
TGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGAATGACGCCTGGTA  
CCTGCCCCG

## Sequence 22

CGCGGTGGCGGCCGAGGTACAGAGTAGAGAGAGTTCTGCAGGGATGAAGTGGGAGACGTT  
GATAGGACCAGACCAGACCAGGCCTTGAGGCCATGGAAGGACTTTGGATTTTACACCA  
GTGCAACAGGTAAGTCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAAT  
TTGAACGCCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAAAGG  
AAGAGAGCAGTTTGAAGCTACTACTGTTGTCCAGAAATATGTAATGGTGGCTTGG  
C

## Sequence 23

CGCGGTGGCGGCCGAGGTACANAGTAGAGAGAGTTCTGCAGGGATGAACGTGGGAGACGT  
TGATATGGACCAGACCAGACCAGGCCTTGAGGCCATGGAAGGACTTTGGATTTTACACC  
AAGTGCAACAGGTAAGTCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACA  
ATTTGAACGCCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAA  
GGAAGAGAGCAGTTTGAAGCTACTACTGTTGTCCAGAAATATGTAATGGTGGCTTGGC  
CCAGGTTGGGGT

## Sequence 24

CCGCGGTGGCGGCCGAGGTACAAAAAAGCACANGCCTGGCTCTGGGTTAGAGACATGCT  
GACTGATGAGATACCAAGGCAGCTGCAAAGGAGAGTCCGGTAGTGAAAGGCAATGCGCT  
GTTAGCTCTAAGCAGCCTTGCTGTCGTCGTATCTAGACATGAAGCCAGCCTCTCCTCAGA  
CTCTGACGGGCTCCTGGAGGTTCAACCTAATTTCTTTCAATGAAAGAGTGGGTTTCCAT

Table 1

GGTACCTGCCCCG

Sequence 25

CCGCGGNGGCGGCCCGCCCGGGCAGGTACGCGGGAGGCACATTCTTTTCTACGTGAAGAGT  
TTTGTAAGTGAACTTTGTTCAGTTCGGCTCCAGCCATCCTGGGGTNGCTTGCCA  
AT  
AGATGAATCCCACTCGTTTGACCCATGACGCTCCTTCTTTTCATTTCTCCCTCTTTCCC  
C  
ACAGCAGTGCATGTCCACCATACCACCTGAGAGTCTGTGGAATCTAATTTTCTGTTATAC  
TTCTTTCCTTACAC

Sequence 26

GCGGTGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCT  
CCATCACACGCCCCAGAAAGGACAAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATT  
GACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAG  
TTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGG  
ATCATAGTTTCTTGAACTCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAATTGTCC  
GG  
ATCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 27

ACGCGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCT  
CTCCATCACACGCCCCANAAAGGACAGTAGCCAGCTTNTCTGGATGCTTTGCCAAGCAAT  
TGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCA  
GTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAG  
GATCATAGTTTCTTGAACTCTCTGTAAGNCNCAACTTGGTTATCGCCGGACATAATTGG  
ACCCGGTATTTCCGGCTCAGNCATCTTCACCTTTCATCTAAGGNTTGCATNTTCCGGGCC  
CGNTCTAAGAACTAGTGGGATCCCCCGGGCCTGCAGGGAATCCGATAATCAAAGGCT  
TAATCTGAATACCCGGTCGGACCTTCGGAGGNGGGGGGGCCCGGNTACCCCAAGCTTT  
TTTGGTTTCCCTT

Sequence 28

CGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTAGCTACATCGT  
TGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTACTAAATTT  
TAAGGNTTGGCAGGCGCGGTGGCTCACACCTGGNATCCAGCACTGTGGAAGGCTGAGGT  
GGGGGCAGTGGGGAGCGAGGGGNTGTTACTACTCCAATGTAAGTCTTTCTCAGAAATTA  
AGGCAAAAAGTCTTACTGACCATGTNAAGGAAATCCAACAATTATAACAGTCTCTGCCT  
TTAAGGAGCTTATAGTCTAGTTAAGAAACCAGACTTAAACATATGAAAAGTTAAACATTG  
GCCAGGCACAGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGAT  
CACCTGAGGTCANGAGTTCGAGACCAGCCTGACCAGCNTGGAGAAACCCCATCTN

Sequence 29

GCGGTGGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTAGCT  
ACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTA  
C  
TAAATTTTAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAG  
GCTGAGGTGGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTCTTTCTC  
AGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGGAATNCAACAATTATAACAG  
TCTCT

Sequence 30

GGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTACGTAGCTACAT  
CGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTACTAA  
A  
TTTTAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTATCCCAGCACTGTGGAAGGCTGA  
GGTGGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTCTTCTCAGAAA

Table 1

TTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAAACAGTCTCTG  
CCTTTAAGGAGCTTATAGTCTAGTTAAGAAACCAGACTTAAACATATGAAAAGTTAAACA  
TTGGCCAGGCACAGTGGCTCATGCCATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAG  
GATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCATCTTTA  
CTAAAAATACAAAAGTGTGGGCATGGTGGCGCATGCCGTGTGATCCCAGCTACTTGAGA  
GGCTGAGGCGGGAGAATCACTTGAACCCGGGAGGTGAGCGGCCCGCCCG

Sequence 31

CCCGCGGTGGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTA  
GCTACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTT  
C

TACTAAATTTTAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGG  
AAGGCTGAGGTGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTCTTT  
CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAAC  
AGTCTCTGCCTTTAAGGAGCTTTATAGTCTAGTTAAGAAA

Sequence 32

GCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATGGCAGTTCATATC  
ATGATGTTACTTTGATTCTCTGACCAAAGTGGCCTGTGAGCACCCCTGGGCCTTTCTTC  
CT

CTGTCAAAGGCCTTAAGACAGGTTTACCCTGTAGCCAGGTCTGGAAGACAGAGCTGGGT  
AAAGCTGGGTGGGAGAAGTGAAAAAGGTGAGTTTACATTCTACGCGGAAAAGGATGTA  
ACACGGGGCCACATCCTATGCCCAATCCCAAGGCAGGGAGGCAGGGAAGTGGCTGCCAA  
CCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAAGCAAAGTCAAGTGGGAAG  
GGGAGTGGGCTGTAAATAGTTTAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGTGT  
AGAAAGGTAACAGTCAACAGTTCCTTAACAAGACAGCTTCAAAGCAGCAGCTATAGTGG  
AGCATTCCTGAGGCCTGCTGCAGATCAAAGCATGAATGTGCAGACTGGTCCTCTTGCCCA  
GCGTTTCTTTC

Sequence 33

CCGCGGTGGCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATGGCAG  
TTCATATCATGATGTTACTTTGATTCTCTGACCAAAGTGGCCTGTGAGCACCCCTGGGC  
CT

TTCTTCCTCTGTCAAAGGCCTTAAGACAGGTTTACCCTGTAGCCAGGCTCTGGAAGACAG  
AGCTGGGTAAAGCTGGGTGGGAGAAGTGAAAAAGGTGAGTTTACATTCTACGCGGAA  
AAGGATGTAACACGGGGCCACATCCTATGCCCAATCCCAAGGCAGGGAGGCAGGGAAGTG  
GCTGCCAAACCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAAGCAAAGTCA  
AGTGGGAAGGGGAGTGGGCTT

Sequence 34

GCGGCCGAGGTACCAGTTAAAGTCTTCTAGCCTGTATCCCCACTCCTTTTGCCACTTGC  
AAATTCGGTAGCCAGTTACCCAGAGGGAGGCATAGGAGGGAAAACGAAGACTGAAAAGG  
GCTAATATGAGTTTTGTCTCTTACAATTTATCTGCATCTTATCCTTCCCCACCCCCA  
T

CATTAAATCATTAAACATTCTATCCAAATAGGATGCCCTTCTGTGGAAGTGCATATTTG  
G

AAACCATACTGCCTGTTTAACCTTATGCACTCCACTGGGAAGTACAGTATCTGTTTCCC  
A

CAATACTTGCAAGTCATATCAGTTACAACCGCTGGGTGTGTATTGGTTCAAAGGACCTAC  
CTACAAGGTTATATCAATCCATTGTCCAATTTGAGAGATTTTTCTGAATCCAGTTAA  
A

TAATTTTTGGCTACACCTGGGGACACTTCCCAGGACAACAATGACTTGAGTCTAGTGCC  
CAAGAAAGCCAAAAAGGCCCGGCAAC

Sequence 35

GGTGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCC

Table 1

ATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGAC  
TCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAGTTT  
GGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGGATGTAAAGCAGGATC  
ATAGTTTCTTGGAACCTCTCTGTAAGTCCAACCTGGTTTCGCGGACATAATTGTCCGGA  
TT  
CCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 36

CATNTGTGTTTTATTGTGAAGGGTCCTCAACTGTGTGGCTGATTCAGGCTGTCCCCACTG  
CAATGTAGGGAGAGAGAGAAAGGGATGAAAGTGAAGGCAGGGGGGGGGATGTTTGTTC  
ACCGGGGTGAACTTCTGCCTGAGCAAGNTGATGTTGGCTTCCGANNGTATTTGGGACACT  
TTCTTTCAATACATNTNTTATTTAAGCACTTTATTCTGTGNCCTGCTGCCCTG

G

Sequence 37

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAACATGGCGGCCTTAGCAAGCTAT  
AGCTGCGAGATTTGAATTACTCCACTCGTAGCTATTGCATTCTGACGATGGCCTCTGTG  
GCTTCGTGCGATTGCGTCCGAGCTCAGACGAGCTCCCTGGAGACCCCTCTTCACAAGAA  
GAAGATGAGGACTATGATTTTGAAGATCGGGTCAGCGACTCGGGTTCATATTCCTCAGCG  
AGTAGCGATTATGATGATCTTGAGCCTGAATGGCTGGACAGTGTGCAGAAAAATGGAGAG  
CTGTTTTATTGGAATTGAGTGAGGATGAAGAAGAAAGCCTCCTTCTGAGACACCAACT  
GTGAACCATGTCAGGTTCAAGTGAATGAGATTATCATTG

Sequence 38

CCGCCGAGGTACTTAAGTTTTCTTCAGTTACAGCTACCATGTGAAAATAATTCTCTGC  
T  
TATCAAGTTTACAACCTTTAGAATTCCTGTTTTAAAGTTTTCTCATTTACTTATCACACA  
GTCATCTTCTTTTTGCCAAACGCTATAGTAGCACATTAAGAGGAGACTGATGTGAAATCA  
ACTCTGTGCAAAAAGTATTGGGTGCTTTGGTAGAAGTCTATACAGAAGACACTGGAGACA  
CAAAAATGAATTTTGTCCAGGTGAGTTGATGTGAGAAAAGGCTTAATAATGGAGATGAGG  
CCGGGCATGGTGGTTACACCTGTAATCCACCTGTTTGGGAGGCTGAGGCAGGTAGATC  
ACTTGAGACCAGGAGTTTGAACAGCCAGCCAACATGGAGAATCCTGTCTCCACTTTT  
NAAAAANTNAAAAANATNNGGTTCTGCCCCGGCGGGCGCTTAGAACTAGTGGGATCCCCC  
GGGCTGCANGAATTTGATATCA

Sequence 39

TCCCCGCGGTGGCGGCCGCCCGGGCTGGTACGCGGGAAAGCAAAACGACAAGCACGCCCT  
GAGCAGAGCCCCGGGAATTCAACCTTTAAGTGGATAACTTGGCTTCTGGTTTGCCAAGGA  
ACCAGGGCATCAAACAGATGAAACAGCCTATTGTCCATTTCAACAGGATTTTTAGGAGT  
GGGGATGATCTTTCAAATTATCCCAACTTAATTATTTAATATTTGATAGTCAATTACC  
TAAGACACGGCATCGTCACTGACCAATCAGAAGAGATGCCAGTAGTTGGGCGCAGTGGCA  
GCACTTTGGGAGGCTGAGTGGACAGATCACCTGGGGTCAGGAGTTGAGACCAGCCTGGC  
CTACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATGAGCCAGGCATGGTGGGCAC  
CTGTAATCCCAGCTACTTGACAGAGTGAGCCTCTGTCTCAAAAAAAAAAAAAAAAAA

Sequence 40

GCCTCCCCGCGGTGGCGGCCGAGGTACAGTTTAGAAAAGTGTGGGGCTGAGTCCTCGGGG  
CCGTGGGGCGCAGCGTGGCTGATCACCATCATAACGGGCCTATGGGGATACATTCTCTTA  
GACATTTTGAAGTAATTAATGCTCTCGTTAGTGATTAAGTCTGTGAAGTAGTCTTTGC  
A  
TAATCAAATCCATGCTTTTCTTTGATGCCATTGCGACAAACAGTGAATTATAGAAGCG  
A  
GAATTCTTGATTAATCCAAGCCATTCTCGCCACCCAGGGGGGATGTAGCTGCCATTATAT  
TCATTGAGGTATTTTCAAAAAAGGCTGTTCTGTAGCCAGTGTGTTAAGATATACAGCA  
AAAGTCCGAGGCTCATGCATGGCCTGCCACGAGGGGGAAGAGCAGTTCTCGTTGTTGGTG

Table 1

TAGACATTGTGATTGTGCACATACTTNCCGGTGAGCATGGAGGACCGTGACGGGCAGCAC  
ATGGGGTGTAGTCACAAAGGCATTGATGAAGGTGGCCCCCATGTT

Sequence 41

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGTGCACATTGTGCAGGTTAGTTACATAT  
GTATACATGAGCCATGCTGGTGCCTGCACCATGGCACATGCATATCTATGTAACAACT  
TGCATGTTCTGCACATGTATCACAGAACTTAAAGTGTAATAAAAAAGAAAGAAAAACAG  
CATGCAATTCAGCCCACACAAAAAAGAAAGTCAAAGACAGCGAGAATTCTTAAACAGC  
AATAAAAGTATAAAGTCACTCTAAAGGAATCCCCGTTAGATTAACAACACATTTCTTAA  
GAGAAATCTAACAGGCCAGGAGAGAATGGGATGACATATCAAAGTGTTAAAGGGGGGA  
AAAACTCCACTCAAGACTACCCAGAAAAGCTATCTTTCAGAAATGGAGATAAAAAACA  
TCTTTCCAGACAAAGAAAACTAAGAGAATTTACTACCACTCACCAGCCTTACCAAAAA  
A

Sequence 42

NTTGGAGCTCCCCGCGGTGGCGGCCGGAGAGCAACCGAGATGAAGGTGAAGATGCTGAGC  
CGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAAC  
TATGATCCTGCTTTACATCCTTTTGGAGTCCCACGAGAATATATAAGAGCTTTAAATGC  
T  
ACCAAACTGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGAT  
GGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT

Sequence 43

ATTGGAGCTCCCCGCGGTGGCGGCCGGAGAGCAACCGAGATGAAGGTGAAGATGCTGAGC  
CGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAAC  
TATGATCCTGCTTTACATCCTTTTGGAGTCCCACGAGAATATATAAGAGCTTTAAATGC  
T  
ACCAAACTGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGAT  
GGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT

Sequence 44

GGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTACTCTGGAAG  
C  
TGAGGNGGAAGGATTGCTTGAGCCCAGGAGTTTGAGGCTGCAGTGAGCTATGATCACAAAC  
ACTGCACTCAAGCCTGGGCAACAGAGCAAGACCCTGACTGTAAAAAATTTTTTACATT  
AATTTTTAAAGTGAGGTTTTACCTGATGATTGNGTAGGTTTCTCCTAGCTCCAAAGT  
A  
TCCGGCTCCTACGACTCTAAATATAACCTTCAAGGAAAGNNGGAGCTGGTTTACTCTTTTC  
TGATAATATCAAGCCATTCTGGCTGGGCGTGGNGGCTCATGCCTATAATCCCAGCACTT  
TGGGAGGCCCGCGTACCT

Sequence 45

GGGNGGCTCCACCGCGGTAGGCNNGGCCCGCCGGGCCAGGTACGCGGGNAATTCAAGGAT  
GGGATTAAAGGATTTAAACCGTTTAGGACCCTAAAAGCATAAAAAACCCCTTAGAAAGGAA  
AATCTTAGGGCAATACCCATTGGAGGGACCTTAGGGCCTTGGGACCAAAGGACTTTTCATG  
GACTTAAAAACACCCCAAAAGGCAATTGGGCAANCCAAAANGCCCCAAATTAGGNCCA  
AATNGGGGATTCTTAACCTTAAACTTTAAAGGAGGCTTTNTTGGCCCCAGGCCAAAANG  
GAAACTTTCCCTTCNAGANGNNGGACCCNNGGCCANCCCTTTCNNGGGAATNGGGGG  
GGGAAAAATTT

Sequence 46

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTCGGGAGATCGTGCCACTGCCCTCCAGCCTG  
AGAGAAAGAACTCTGTCTCTAAAAAAGAAAGAAAGATGTCAGTGCTATTTATAG  
TAATACAAAAATTAATGTAATTTTGTCAAATCTCAATGGTATATTTTGCAGATTTT

Table 1

TCAAATTATATATATGATTTATAAATTATTGTTATAGATTCTGGAAAGTTAATCCAT  
CTCACCATTACATAATACCAATCTCTCTCGGCCGGGCGCAGTGGCTCACGCCTGTAGTCT  
CAGCACTTTGGGAGTCCGAGGCGGGTGAATCATGAGGTCCAGAGATCGAGACCATCCTGG  
CCAACAAGGTGAAACCCCATCTCTACTAAAAAT

Sequence 47

CTAACCTCACATTTAATTGCGTTTGCCTCACTGCCCCGCTTTTCCAGTCGGGGAAACCT  
TGTTCTGCCAGCNTGCAATTTAATNGAATCGGGCCCAACNGCCGCCGGGGGAGGAGGG  
CCGGGTTTTTGGCGGTATTGGGGGCGCCTTCTTTCCCGCTTTCTTTTCGCTCACTT  
GAA  
CTTCGCCTNCCGCCTTCGGGGTCC

Sequence 48

CGCGGTGGCGGCCGCCCGGCCNAGGTACAAGNGACAATGCTGGATGCCAAGCAGNTCCCC  
CCTACCGTCTCACTGCCCTCAAGACTTCAAGGCCACTCTCCCCATAACATCATGACTA  
CAGATTTAGGTGGAAGAGCAGCCATGTTTGAAGGACATGTGATGAGTGGGGGCGAGCA  
AGATGCCATTTCTGCATCTCCAGAAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTCT  
TCGTTGGGCTCCAGCAGTGCTTNCCTNCTCCACCCTGCACTTCATTTNGTTCTTTCC  
CC

CCCNAACTTTT

Sequence 49

GCGGCCGAGGTACAACCTAATGGAGCTCAGAAAGCTGTCAAGGATATAAGCAGTGCAACCCA  
AGACCTAAGAATCTTGATGTTGGAAATAAAGATGGAGGAAGCTATGACCTACACAGAGGA  
CAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCAGACATCAACTGGCA  
AGGCCTAGAGGAGCTACACAGTGTGAATGAAAACATCTATGAGTACCTGCCCGGGCGGCC  
GGCTCTAGAACTAGTGGATCCCCGG

Sequence 50

GGCGGCCGGANGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTAC  
ATCCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAG  
TATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGG  
CAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGATGGAGAGGTTAGAA  
TTTGAATCTAACTCAGCGGAATTGTATCCCGTACC

T

Sequence 51

NGCGGCCGAGGTACCTCAGCATATATTGGAAGTGTTTTAGAGTTGGTGAGTTCCCCGTG  
CCTTCCAGAACTGAACGCTAGGAGGAGCAGNCAGNGAGGACAGACGTCTATGCAGAAACA  
TGGNGAACCTCTGGAAATGACACACTCTCCGGGCNCAGGGGGCCATTCTGTCATCTTTGA  
GGTGGACTAATCATGGAGATTCTNGCAGGGCCGGCTGCTATCTCAGATTTTCTAATCGGA  
GAAGGAGAGAGATCAACTTCCATCGACTCCAGTCTGTGCGGGGCTGATGAGTGAGGTGGC  
AGCAGGCATCCGCGTGGTTTTGTTGAAACTGGACTTTTTATTGTGCTGAAAGCTGTTT  
GT

TGTGATGATCTCATACTTTGNAGTTGNTCTATCTGCANCACTGACTTTC

Sequence 52

TCGTTNGAAGCCCCCCCCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTGG  
CA

TTCTGAAAATTCATGAGGCTGTGTTTTAGGTGAGGCTATTTCTTCATTCACTGAACNG

GG

CACCCAACAGGCTCTTAATATGAAGACTTGGGCCCTTCTGAGTTCTAGAAAAGCATTTT

TACTAGTTCTTCAGTAATTTCCCTCCCTTCATTCTCTGTTCTTTTTCTCGGACTC

C

AATTGGATCTTGGGCCTCTAAGTATAGGCAAGATCATGTTTCTAAAAAGGTTCTTAGAGG

GAGGGAGTTCCTGGGAGTGTTATGTGGGGTGGTGCANAAGGTGCTAACAGGTGGNTTNT

Table 1

CTTTAGGATGAGCAGGTGG

Sequence 53

GTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAG  
AGAGTTCCNNGAACTATGATCCTGCTTTACATCCTTTGAGGTCCCACGAGAATATATA  
AGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACCATTCTTGCTTCGCTG  
GATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTC  
CTTTCTGGGGCCGTGTGATGGAGAGGTTAGAAATTTGGAATCTAACTCAAGCCGGAAATT  
GTAATCACGTACCTCGGCCCGCTCTAAGAAGTAGTGGGATCCCCCGGNGCTGCAGGGAAA  
TTCCGATATCAAGGCTTTATCGATACCGGTCNACCCTNGAGGGGGGGGGCCCCCGGGTACC  
CCAANCTTTTTGG

Sequence 54

CCCCCGCGGGGCGGCCGAGGTACACTGGGAAAATGAAGAACTTAACATACATAAAAAATAG  
AGGGACAGTCAAACTTCACAGGGGGGAAATCAAGTTAAATTCAGAGCTGGATTAGATG  
ATGCCATTCTAGAGAAGTTTGCTTTCTCCAATGCTCTATGCCTTTCTGTAAACTGGCA  
A  
TTTGGGAAGCATCACTGGATAAAATTTATTGAATCTATTCAAGNCAATTCCTGAGGCTT  
T  
AAAAGCTGGGAAGAAAGTGAACTATCTCATGAAGAAGTTATGCAGAAAATCGGTGAACT  
CTTTGCTCTAAGGCACCGTATAAACTTTGAAGTTCAGGACCTTCCTGATTACTCCTGA  
TT  
TCTTACTGGGGACAGGAGAAAACCNNGGAAGGGACTTTACCGATAAAAACCGTGGTCAA  
ATTCTTTAGCCATTTGGCCCCGAAAGANGTTAAGGGTCCAATGAAATTGAAA

Sequence 55

TAGCAGGAGCCCCAGGAGTCTGAGCGNGGGACCCTCATGTCCATGCCTGTTGTCCCTGG  
ACNTGAAGACCTGAACTCCCCCGCGTACTCTCGGCCCGNTTCTTAGGAACNTAGGTGGG  
ATTCCCCCGGGCCTGCTAGGGGAATTTCCGAATATTCAAAGGCTTAATTCGAATACCCCG  
GTCCGAACNCTTCGNAGGGGGGGGGGGGGCCCCCGNNTTACCCCAAGC

Sequence 56

GCGGCCGAAGAGCACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGT  
CCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCC  
TTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
TGCAAAACCATTCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAA  
GCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTG  
GAATCTAACTCAGCGGAATTGTATCCGTACCT

Sequence 57

CAGGGAATGGGNGGNGGCTNCACCTGGGGANNCTGAGGCCCGTGTGTTGTGGAAGATGTA  
GATTCCTTCATGAAACAGNCTGGNAATGACGACTGCNGATACAGTATTAAAGAAGACTGG  
ATGAACAGTACCT

Sequence 58

CGGCCCGCGGGCAGGTACGCGGGCTATTGTGATTCCCAGTGACCCATAGAACAGGATTTT  
ACTAGTCCTATGACATGTGACTGGGCTTGGGAAGTTCNCGTGTCAGNTCCAAAAATCCTA  
AGGTGGGATCTTCGCTTTGTGAAGCAAATTAATTACACAACCAATATTGCCACATTCT  
T  
GAGGTCTATTGACACAATGGGAACCTCAACCCCTACTTAGCTTAGCATTTTTTTTTTCA  
A  
GAGTGAAAAGTGGTCCACGTAGAGCACAATATAATTTAAGTAAAGGAAGATTAAACATA  
TTTTTATCCATTTCTTATGGTGGNNNNATTACATGTTTTAGATTTGAGGTCCCCCTCTC  
A  
GGAAAACCCTTTCAACTTCGTATTATTCACTCCTGAGTAGTATGGGGGTAGAAAAATGAG  
TGGGAAATCAGTTTGGTCCACTATTTCCCGAGTCTTCTTGCACTTGCAAATACTTTC  
A

Table 1

TCAAATATTTTACCAAAAATTCTCANGCNCCTGTTTACCAGGATGGTGGTATCACNATC  
A  
GGGCTCAAACCAAAGNTTACAGGAAATTCTNNTGGNGGGTTTTTATCCTGGGACNATTC  
TAAATTTTAAAAAACCTAAAAAAGGTATTTATTTCTTCNCNAATTTATTCAANTGNTTT  
TTTAAA  
Sequence 59  
CACGCGGGAAGATCAGTTGNTTTACCTTGGCATTCAAAGACTTTTCTTTGACTCCCATG  
GTTCTCAAAGCGTGATCCTGGTCCACCACCATCAGCATGGNNGGNGGGAACGTGTAGCA  
CTGCAAATTTCTCATTCTCCCTAATTTTCTGAATCANAAATTACGGAGGTGGAGCCCAGC  
AATCTGTTTTAACCAAACCTCCACATAATTCTAATTAATTTATGCTTTGGAGAACNCGC  
T  
GATCTAGTTTGTCCCTCTCATTTTGCAGGCAAAGAATTGAATTCTAGAGAGGTAAATTG  
A  
CCTGTCCAGTCATACAGCTAGGGTCTGTTTTCTATTATTTATTTATTTATTTTAA  
TTTTATTCACTTTACCCCCCAGGTATTCATAGNTTTCTTTCTAAATACTCCATATTTGGA  
CTTGACTTTTTACAAGTTTGTAATTACCAAATAAAGTCTAAAGATGGGGAAGGTTGTGG  
GAAACTTTATAGAGAACATGAGATTTTGAAGTGAACAGTNAACATTAAGTAGAGAGNAA  
AAAGAAAGGGGTGTTCTAAAGCAGTAGGGACCACAGTGAATAAAGGAGAAGATAGGGAA  
GNTTTAAAAAAA  
Sequence 60  
ACATCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACG  
AGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGNGATGGAGTCAATTGCTT  
GGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAG  
AATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT  
Sequence 61  
TCCACTCCCGCGGTGGCGGCCGAGGTACACGTTACTGTTCCGTCGTATTTGTAGTCTCT  
GTTCTGCCCTTTGGAACATCTNTTCGGTGTTCTGTGGGATCTCTCTACTGCATTNTA  
CT  
TTATGTAATAATCTGTTCAATAAATAATTTTTTAAAGGAGACAACAACGCCGCGAGGTGAT  
CTGGAGGCTCCTGGAGGACCTCAGCGACTCAGGTCCAGTCCAAGGAGGGCCGCGAGATCAG  
GCTGAAGGATGGATCCACATGTTTAGAGGAGATCGAGAAATGCAGAAGAGAGATGCAGCA  
GAGAAATGCCACAGAAAGGGGAGCTGGAGAGAATCAAAGCATGAGAGGAATTAACCTGC  
TGCTACTGGAAGGGGTCCAGATGGAACGCTTGAGAAGAAACGTGTGTAGCATCTAGGAGT  
AAAGACTCGCCCTGGCTGACAGCTAGTAAGGAAATGGGAACCTCANTGCTGCAGCCTCAA  
AGAATTGACTTTAA  
Sequence 62  
TGGCGGCCGCCGGGCGAGGTACAATGATGGCTGTCAACTTCGTTTGTAAAAAAGACA  
ATTTGAGCAGGACGACCCTCTCCAATCTGGGTAGCATGGTTAGCCTGTGCAGTAACAACG  
TAGGCTCGGAGGATGGGTACCT  
Sequence 63  
TGAGTGAGCCTAACTCACATTTAATTTGCGTTTGGCGCCTCACTGCCCCGCTTTTCCAG  
TT  
CNGGGGAAACNCTGTTGTTGCCAGNCTGCATTTAATGGAAATCCGGCCAACGCCGCCG  
GNGGNAGGAGGGCGGGTTTTGCCGTATTTGGGGCGGCTCTTCCCGCCTTCCTTCGGCCT  
TCAACTTGACTTCGGCTTGCNCCTTCGGGGTCNGTTTTCTGGCTTGCCGGGTGAGNCCG  
GGNTATTCAANCCTTCAACTTCNAAAGGGGCGGGGNAATTACCGGGTTTAATCCCAAC  
CAGGAAATTNAAGGGGGGGAATAAACCGCCNAGGGAAAAAGGAAAACANTTGTGGAAGC  
CAAAAAA  
Sequence 64  
GGGCGNTGGGCTGGAGGAGNGGAGCGGCNNCAGNAGGGGGGCGCCGCCNCCCCAGCAGA



Table 1

NGNCTCCAGCAGCAGNNGNANCTCTGAGGCTCCANCNCCCACAGCACCGAACAGNGGGNN  
CCAGCNCCACCAGGGGACCCNCGGANCCCCGGGCGACGGCNGANCCAACNCNGAAGGAGNC  
NNAACCTNNNCNNTTGAGCGGNGGNNCNCNCCCGCGACCCGAGCAAAAGGAAGCCAG  
CNGGAGGGGCGGNGGANNGACGCCNCGGGGGGCACAAACAACCNNCNAAGGAAGAANN  
NGCCACCCACCAANCCNNANCAANACAACAAANGAANCAANACAACANAACCCAAAAAC  
GAGNAAAAAAAAA

Sequence 65

ACCTTTTTTTTTTTTTTTTTTTGGAGGAGATGGACAGTGTCACTCTCCTGATANGGNG  
T  
GATGGGTAGGTAATTTAAAGCTTCTATTATAAATCTAGTCTCTCTGACACTGCCCTG  
T  
CCACTGCAGTCACATCTCCAATACTGAAGGATCCTGAGAATACCGAGCNGGTCATGACA  
CTTACTCACGTCATTACCAANTTTTTTTGNACCTGCCCG

Sequence 66

GCGGTGGCGGTNTCCCGGGCAGGCCACGCGGAAATCCCCTAACTTCCTTGCTATCTTCCC  
ATCCCATATTTAGGTTAGATAGAGAAGTGTGTATGTGTGTGTGTGTGTGTGTGCTCGCA  
CAGTGATGAAGTGTAAACATAAATGAAGATATGGAAAAATACATCAATTAGGACAACATG  
ACAATTCATTAGACTCCTATCAAAGAGTATCAGTTCACAGTTNNTNTAGATACTAGTA  
T  
AAAATTCAGATCTTGACTGTTTTCTGGGGATAAAGCANGGCTTTACAATTTAGCAGTNTG  
NAGCTAGCTTGAAACAGTAAACAACAACAGCAGAGCCTTAAGTGTATTTTTGTGACCTA  
AAACATGAAGTCAAGGTTTCCAAATTCCTAACA

Sequence 67

AGGTACTTGAAGGATAAGAAATTAAGTGTGTCAAATTACCCACAAGTTAAATGCCCATGTT  
CCAGACCTGTGGCTCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTAC  
TCAGTGTGCTTAGACCAAAGGAAACCACACAGGGATTTACAGGC

Sequence 68

GGATAAGAAATTAAGTGTGTCAAATTACCCACAAGTTNNTTGCCCATGTTCCAGACCTGTG  
GCTCTTAGTATCAGGCTTGNGATAGAGAAAAGGCTGCTATGAATTCTACTCAGTGTGCTT  
AGACCAAAGGAAACCACACAGGGATTTACAGGC

Sequence 69

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCATTTTCATCTTGACCCGCAATAC  
CAGGGATTGTTGCGAAGAATCAGTTGTGTTATATTGTCCAAATCATCAAAGATACCCTGA  
GGTAAATTACTTAGGTTATTATTGGACATATCCAGTCGATAGAGCTGCCTTAGATAAGAA  
AAAGCATTTGGGGGCACCCGATTGATGTGTTATCTTGAAGATAAAGCTTCCTCAGGTTT  
GTGCCTGGAAGGTTTACTGGTGCAGCAGTCAGGGAATTCGCGACCAGGGACAGCTCTGTC  
AAATTAAGTGGTTGAAGAAAATTTGTACCTAAACCATGATTGTTCAACAGGTTTCCA  
TCTAGAACCAGGCGTTTTAGACTAGTGAGACCTTGAAGAGATGGTGATGAAATAGTGGAT  
ATGCGATTATCATCCAAGCGTAGTTCTTCTATAGTCTGGGCAAACCCAGGGAATTGTG  
CTAAGGTGATTACGGGACAGGAAAAGCAGTCGGAGATAGTTGCTGTCTCGGAATGCTCCC  
TCTTNTATGCTAACTGCAGAGACAGAGTTGNCATCTAAATGTAATTCTCCAGATAGG

Sequence 70

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGAATAAAAGGCTTTGGTTTCTCTG  
ATGTCTTCCAATCAATCACACAGAGCTTGCCCTGATACTCAGCCACACAGTCCAGCAGAC  
CTATATAGTTAAGGTTTCATGTTGAACAGCACTTTCAAGAGCTCGCACTCCACTGAC  
AT  
CTTTCAGAATATGCTGGACACTTTCAATGTAACCAGACTTGAGGAGATTTTCATCTCTC  
T  
CTTTAAGGTTTCTGGGGTGAAAGTATGCTTTCCAAGGCTTCGTGGAACCGTTTCCC  
TT

Table 1

GTAAAAAGACGTTTGAAGTGTATTCTTTAAAGCCATCTTCTCCAGTTCAGAAATCATC  
C  
CGCTGTTTCCACCTCTCCAACAAAGAAAACCTGTTGTTTTGGTCATGGTCTGCTGAAGGA  
CTCGGGTCACACTTGGTATCACATTCTTTGCAAGGGGATTTTCAA  
Sequence 71  
AGGTACTTGAAGGATAAGAAATTACTGTGTCAAATTACCCACAAGTTAAATGCCCATGTT  
CCAGACCTGTGGCTCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTAC  
TCAGTGTGCTTAGACCAAAGGAAACCACCACAGGGATTTCACAGGC  
Sequence 72  
GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATATCATTTATTCAAGAGGCAGA  
TTTTAAACGTTTTTGTAAGAAAGCTAAATAACACCCAGAGTGAAGTCAAAAAATTTCTCAA  
C  
TTTGCCCAAGTGAATAGTAAGTCTAGAGTTTTTTGGGTTTTTTTTTTGTGACAGAGTTT  
C  
TCTCTGCCGCCAGGCTGGAGTGCAGTGGCGATCTTGGCTCACTGCAACCCCTGCCCCG  
Sequence 73  
GGCGGTTNTGGGGGGCAACACCGANCCGCAGAGNCACACTNGCAACAAAAGGNACTTNTT  
TGGGGGGGGGAAAAACCCCGGCCCNCCNGNCCAGCNGGACCATCNATTTNNTCCNCCNC  
CNCGGAGCNGCNCNCCNAAAAAGCNCANACAGNAGAGANCAGNNGNCNCCNGNNGCAAAN  
CNAACANANANNCANGCAANGGAGGNGNANCNCATGCTTTTTNGNNGGGGGGGGNGCG  
CNACGCNCCNNGAAGAAAAAACGCCNCAGNAACGGGGGGGGGAGGACCCAGCCNCG  
GCGGNCGCNCNAGAACCAAGNGGAACCCCGGCCNGCAGGAAANCCGAAANCAAGNCN  
NANNGAAACCCGNNNAACCNAGANGGGGGGGGNCC  
Sequence 74  
CCGCGGTGGCGGCCGCCGGGCAGGTACCTTGTGAGAAGAGGAAGAAGGTGATAAGAACTA  
AGATCAGAGCATAGTAGAGAAAGTAGCCCTGTAAACAGAGGAGAAGCAGAAAGAGAGAGG  
GGAGGACAGAGCTTTTATTTTGCTCCAGGTAAAAAGAAAAAAGCACATTCAACTCT  
ATGTAGTGTCTGTCCAGGTCTAGAACTGGAATAGACCAACCAAGCCCAACCTTCTTA  
AAAGTAAGACTNGGTGCTTCTGATTATATATTCAACTGCCTGGAAGCATGCAAGTAAAA  
TTTCCTTGATGGCATTCTAAGTTTCAAACATATTCTTNTAACAATGCATTTACAAAA  
AAATATTAGGGATTGNGGTTTTTTGGTTNGGACTTTAAAAAAATGTTTTNAAANC  
C  
ATAATTGGGGGCCCTACCCCAAATGGATTCTTCTCCCCTACAGGTGGAGGGTTTCATTT  
TTTC  
Sequence 75  
GCGGCCGAGGTACGCGGGGAGGCGTTGTGGGAGGAGGTGCGGGGAGAGAGGAAGGGGCCT  
GTGCACTGAGCNGGCATCAAACTATTAGTGGATGGCCTTGCGTCTCAATCTGCAGTAAAN  
AGGAACTAATCTGAAAGGGAANGANAGGACTGTGTGNCTTTTTATTTTTTAAATACGG  
AGTGTGCANTTTTACTGAATCTGAATCATGCC  
Sequence 76  
CTTGGCCCTTGGNTCGGGGGCCNTTTNCCCCCAAGGGATGGGGNCCNTGGNGTANGT  
GTTNGNGGGCCCAAATANGAGCGGANAGGTTAAANNCNAAGTAACNAACGACCGTAATCG  
TTGTAGTTCCAAATGGGGAAATTTGGGGTNTTTTCGGGNGGAACCTTAAGAAAGNGGCCTT  
CCAAAATTGGNGGTTNGGGGGGAAAGGAAAGGAATCCCCCCTTGGCCAANAAAAAACNC  
CCACNCCAAACCCCAAGGAAAACCGGTTGGGGNTTTTTTGGGCCCNNGGAAAGGGGC  
NTNGTTCATACCTTGGGNANGGAAGGNAAAAATGGAATTTTCTTGGGGGGGGGGCTTTG  
GTTCTTTTAAATTGNAAAAAANATTNAATTAACGGACCCATTTTNTCTTCAACNAAT  
AAAAGGCCCCCACGTTNNTTCAATTCATCCCCCAATTTTTNTCCCTNCCCCTTTT  
T  
TTANCCCCTTTTTTTTCTAAAGNATTGGGCCAAAGNNTTNTCTCCNTTTNTTTNCCA

Table 1

A

CCNATTTTNAANGGGGGCCTTGGGGTTTTNGNGTTNTTCAANAANAACNTTTTTTTTT  
GN  
GGGGTAAGTCCCNACCCGNGNTANCNTTGGGTNCAAGNTTTCNNTTCTTTGGGGGGGGA  
AAAGGCTTGGNGGTTTCCAANGTCCNTCCAATTNTCCTTGGGCCAAANGGGGGGCCTTT  
NCCTTCCCCTTCCCCTTNCCTTGGTNCTTTTT

Sequence 77

AAAAAGNGAATTCCANCNTGGGGGNCCTTGGNGAAAAAGCCTTCTTAAACCANGGGCCAA  
TTTGGCNCAGGCCCCCTAAAGCCTTACCCTGGCCAAGTTTTTTGAAGAGCCAAAGGGGGGC  
CAAGNGGGTTCAACCTTTTAACCCCTTGCTTGGTTCTTGGAATTGGTCNTCCCCTTGG  
GGGGAACCAAAACAAGGAGGGGGCCTTGGCCACCTTCAACTTGGGCCTTGGAGGTTCCA  
AGAACCAGGAAAAGGAAGGGGGAATCCATTCGGGGACCTTGGGAAAAGNCCTCCTTGGG  
CCAAGGGGGTAATTGGGGCTTAGGCCCCNTGGGGTTNACCCCGGTTAAGTTGGAAGAA  
AAATTNGGGAAGNAAGGGGGGCCCCAACCCTTGGCCCCCAAGCCNTTAAACCACCAAGGAA  
ATGGTTTTTTTCCCCAAGGGGAACAAAACCAAGGGGAAGGGGCTTGGTTGTTTCCCC  
ACCTTTGGNACCAAGTTTTTCAAGNACCAAGGGAAGGTTGGGGGAAAACCCCAACCT  
TGGGGNACCCCGGGGAAAAGNCCTTCTTANNCCAAAGGNTGGGTTTTGGCCCCCAA  
CCCTTGGGGGCCTTAANCCTTTANAANTTGGGAAGGCCCTTTTGGAAANAACCCCAAG  
GCCCGGAAAAAAACCCAAAATTTAAAAATTTCAAAAAAGGGAAAGGCCAAGNTTTTCTNT  
GGTNCCCNAANAAGGN

Sequence 78

TCCCTTTAAGTGAGGGGTAAATTGCGCCGCTTGGGCCGTAATCATGGTCATTAGCCTGGN  
TTCCTGTGTGGAAATTGTTANTCNCGCCTCACAAATTTNCAACACCAACCATTACGGAAG  
GCCCCGGGAAAGNCATTAAAAGTTGGTAAAAAGCCCTNGGGGGGTGCCTAAATGGAAGNTG  
GAGCCTAANCCTTCAACATTTTAAATTTNGCGGTTTGGCGCCTTACCTGGNACCCGGCTT  
TTTTCCAANTTCCGGGGGAAAACCCCTTGTCCGGTNGCCCANCTTGNCCATTTTAAAT  
GGAAAATCGGGCTCCAAACGNCCCCGGGGNGNAGAAGGGCCNGGTTTTTGGCCGGTTATT  
TTGGGGGCCNGCCNTTCTTTNCCGGCNTT

Sequence 79

GAGGTACTTTGGGCCTCTCTGGGATAGAATGTTATTCACGCAGGCACACCAACAAGAAG  
GGCAAGTTTCCAAGGATTTCAACCTGCTTCAATCAAGAATGGGGCGGGGGGGAAGAATG  
AAGAACCAGGAATGGGTGGCCAAGGCCACAGTTTCGTTTTTNGANTCCTCCCACCC  
TTTGGGGTCCCCTTCCCGGCCCGAAAAGTGGAACCCCGNATGGTCCCCTTCCATA  
ATTGGTTTTAACAGGGTAAAAATAACAACCTNGCAAGAAAATNCTTTCAAAGGGCCTCCC  
AAGNCCCTTGCNTTGAATTGGGTGGAAGAAGGTGGAAAAGGTTCTTGGTTCCCCCAAG  
NACCCCACTTGGCCCAACTTGGAAACCCCTTGGTCCTTGGCCGAATTGNTCCAAGGTN  
GGGGCCCCNTTGGTTTTGGGGAATTGGTAATTCCAAGNAAGGAATTGNAAGNGGGAAGC  
CCCTTGGGGGNAANGCCCCCTTGGGGCCCCAAGGGGTTTTTCTTGGGCNTTGGGGTT  
AACCCTTGGCCCCCGGGGGCCCCGGGGGCCCGGNCCTTCTTAAGAAAACCTAAGGTNG  
GGGGAATTCCCCCCCCCGGGGGCCTTNGCNAGGGGNAANTTTTCNCAATTANTTCCAAA  
AGNCCTTTAATTCNGAATTNCCCCCGGTTTNGAACCCTTTTGNANNGGGGGGGGGGGC  
CCCCCGGGGTTNACCCCAAGNCNTTTTTTGGGGNTNCCCCNTTTAAANTNGGAAGGG  
GGGTTTAA

Sequence 80

TGGCGGCGATTACTGTGCGAGAGGTAAAGGATATATGTGGCTACGATTACGGCCTCTCT

Sequence 81

GCGGTGGCGGCGGAGGTACAGCCAACCCCTAGGTGTGGACCAGCTGAGGCACGGTGGGC  
ATGATATGCAGAGGGACTTGGGGCTTTGCCAAAGGGTAAGCACAAAGAAGGAGTCACGGG  
TTCTGTTGAGGCACTGTTGGGATTAGGAGCCGGAGGGGACCTACTTTTGCAGGAACCTA

Table 1

GCATAACTTTGTGTGACGAGACTGCACAAGACAAAGCTCANGCAAGTGGCTCAGTAGTTG  
GCCAGCCCAGCAGGGTCTCTGTATGAGTGTGCACCCAGCTGAAGAGAAGAAATGGAGAG  
CAGCAATTGGAGCTTNAGGACCGGCTTGCACTGTGGCTCCAGGTTATACCACCACTGCCC  
AAAGCAAAAGCTAGAGAAGCAAGTGGAGAAATGCTGGGAGAAAGCTG  
Sequence 82  
TGGCGGCCGAGGTACGCGGGGGAGTCAGTCTCAGTCAGGACACAGCATGGG  
Sequence 83  
CGAGGACCTTGTTGCAGCTCTTTATTTCTTAAGTCCCCTCCCCGAGGTAACACATTT  
CT  
GCTTTTTAGCTGTTTCTCTAGTGTAGGTTACCTNGCTAATTTTTGATTCAATCACT  
T  
AACCACCGTTACATACTACAAAATATCACTATATTATGACCATGATTATTTTTNTTTTC  
TTTTTCCCTTCATCAAGGAAGTTCATCAAGAATTTTCATCAAGTTCAATGATGACCTC  
T  
TTTTAAATTTTTCTTAGTATTCTATGTAACATCACCGATCTTTTCCCCACACACTTCAA  
GAGGCTTTTTTAAANATAATNTTTTACATAGGCCNTTGAGGCACANGATTAAACCAATCC  
CTNTTTT  
Sequence 84  
GTGGCGGCCGANGNACTNNGGCCTATNTGNANANAAGGTATTNACCNNGNNCACAACAA  
ANGCATNNTCCATATTNNAACNGCTCATCATATGGNGNNAANATNNNGACAGANGGTGCA  
ANCACNNTNCACTNGATATACNCCTTGGTNCCTCCGGCCGCTCTAGAANCTNANTGGGAT  
CCCCCCCAGGGCTGCAAGGGAAANTTTTGAATAATCAAAGCCTTTATTGGAATAAC  
CCCGNTGCNGACCCCTTNCGAAGTGGGGGGGGGNCNCCCCGGGTAAACCCCCCAAGACCT  
NTTATGGTTTTCNCCCTTTTTTAAAGATTGNAAGNGGGGTTNTAAATNTAGGCCNG  
CC  
CGCCTTTTGGGNCNGNTTAAATTNCAATNNGNGTTACAATTAAAGNCCTTGGGTTTT  
TT  
CCCCTTGGTTGGTTAGGAAAAAATNTTNGATTTTAATTACCCNGGCCTTTNCNAACNAA  
AAATTTTTCTTCCACCAACCCAAAACCAATNAAACCTNAANTCCCCGNGGGGNAAGNC  
CNAATTAAAAAANGATTTGGTTAAATAAGGCCNCTTGGGGGGGGGGTT  
Sequence 85  
CCGCGGTGGCGGCCGAGGTACTTATATTACATTATGCTCAAATGCAAACACTTATGCTAA  
ATGTTATATTTGGGAACAAATTGTGTAAATATACTGATGACGTCATGGATCATTACAA  
T  
TAATGTAGGTGCCGTGGGCAGGAAAGCTAACTTTANCTGAAAGCATCTNNAACGTGCTTA  
TTTTTCATGGGCCCTCAAAGGAAAGGGATGAGGCCAGCCATAAGGAANGGCTTGGCCAAA  
TATAGTTCTTGTGTGCAAGAACAAATCCCATTTCAACAGAACTAACGCTGGCAT  
GCCATTCTNTCCTNAGGTTCTTGGCGTGCAGTGAGCGAGGCCNGGATGGCAGTCAAGGAT  
TCATTCCCTTG  
Sequence 86  
CCCCGCGGTGGCGGCCGAGGTACATCCCTGTTTATCCCATTCATCCACCGAGGCCCAAC  
AGCATGGATGATCTGTTTGCAGGGAAGCCTCCCTGCTCCCGTGACAGCTATCTCACCAGC  
TGACACTTTACCATATCTGGCAACAACTGTTTGCTCTCTTCTGGATTCAAATCCAC  
C  
AGCTTTTACCAGGGCCAGGGCCAGGCCTCCCCATGCAGAAGATCTTCATTGGCTGCATT  
CACCACAGCATCAACAGCATGTGTGGTGAGGTCATCTTCCACACTGATACTCTATCCT  
AGGAGTCAGCATTTTTCTGAACACTTGCAGAGATTTGCTGTTGCCTTCCTGAACTGGAGA  
GACCAGGGTAGAGATACAGCCAACTTATTCTGGAGGACTTCACACAGCTGACGCTCATT  
ATTTTTTAAATTTTAGAAGTCATTGGTGGTTAATGG  
Sequence 87  
CGGTGGCGGCCGAGGTACTCTTCAAATTTGTCAAGGTCATGAAAGACAGCAAAAAGTGAA

Table 1

GAATTCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGACTGGCTGGGCACG  
GTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGGGAAGGCCNGAAGAGGGACAGAT  
TCATCTTAGNGTTTGGGAAGTTGNGAGAACGAAGC NNTGACTCAACGTTGGTAGAAAACN  
CNNCATCCCNTACCTATAATAAATACCAGGAAATTACGCCTTGGGGTCGTNGGTTGGNTG  
ACATTGCCCTTATTAATNCCCCAGCCTTACCTTTGTGAAAGGGCNCCTCCGGNCAGGGA  
AGAAATTNNACCTTTNTATACN CNCGGGGGAGGGGCATGAAGTGTTTTGTTGNGTTTGAA  
GCNCCAAAAAAATTTGGCCGCCCATTTTGGNCAACNTCCCANGCNCCTNNGGGGCCAANC  
AAAGAAGCCGAA

Sequence 88

GCCCANAAAACCGTAAAAAAGGCCGCCGTTGCTTGGCGTTTTTCCATTAGGGCTCCGCC  
CCCCTTGACCGAGCCATCACCAAAAAATTCGACGCTCAAGGTCAAGAAGGGTTGGGCGG  
AAAACCCCGACCAAGGAACNTATTAANAGAATACCAAGGGCCGTTTTTCCCCCCTGG  
GAAAGGCTTCCCCTCCGTGGCGCCTCTTCTTGTTCCTCCCGAACCCCN TGCCGCCCTT  
NACCCGGGNATTAACCTTGTTCCCGCCCCCTTTTTCTTCCCCCN TTNCCGGGGGA  
AA

Sequence 89

CGGGCAGGTACCGCTCAGCCTGCTTGGTTGCATCCTCCGCATGGCGAGTCAGCTCTGAGA  
TCTGAAGGTCAGCATGCTTACGCTCGGCCTCACATGTGTCAAAGTGATTCTGGATCTCCT  
TAAGTCGATCCAACATCTGCAGNTGCTGGTTTTCCCATTCCTCAGTTCACGTGTAA  
AT  
TCTCTACTTGTGATGCCAAATGTGCTTCTNCTTGTCTTTCTTCCATGCACCGTTN  
A

CTTCCTTTAACT

Sequence 90

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGACAAACAG  
GAAAGACTGAACCATCTATTTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTA  
TCTGTAATCTCTCCATTCTGCCCTCTTGATTTAATGCAGCTATAAAGGAGAGTATTTT  
A

AAAGTGCCTCCCAGTAGGAAGAACAGTCACAAGGCACTGTTATATCAATTCAGTGTGACA  
CAAGCCCTGATTATTTAATAGTATAACAGCAGTGAATCAGAGTTCTTTCATCTGACTTT  
G

CTGACATTNCCAGCAGCTGNATATTTAATTCACAGTTAGGGGCTGGACAACTACAGCCN  
TTGATCAGAATGGAAGCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTGCAC  
AAAATTTTCATTTATTCACT

Sequence 91

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGACAAACAGGA  
AAGACTGAACCATCTATTTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTATC  
TGTAATCTCTCCATTCTGCCCTCTTGATTTAATGCAGCTATAAAGGAGAGTATTTAA  
A

AGTGCCTCCCAGTAGGAAGAACAGTCACAAGGCACTGTTATATCAATTCAGTGTGACACA  
AGCCCTGATTATTTAATAGTATAACAGCAGTGAATCAGAGTTCTTTCATCTGACTTTGC  
T

GACATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAACTACAGCCATT  
GATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTG

Sequence 92

CCCCANGAGGNCACCAAGCATCCCANCAACCCTTNNTCCGGGNGGTGNAAANCCCCANGGCC  
GCCAGGCAANGGCACANCAAAANCCGGGCTGCGNCNNGAGCACNNGGGCANCCCCGAGAAAA  
CAAGGNCNCAACNACNGACNNGGCNAAGAAGGGGCCNCCCCNNGGCCAACNNAACCANACA  
GNNNAGAGCAATCTTTTTNNGGGGNGGAGCACCGGGACCACCACCCNGACAACAAAGGA  
CCCCGGCCGGGGN

Sequence 93

Table 1

CCCGCGGNGGCGGANATTGGGGGNGAAACCTNANANCANGGAANCTTTGCTTTNNGNCCA  
GATTANATTGGGGGNCCTTAAANCCCCAGCGGCNNNGACAGNTAATACACCTCACGTTT  
TTNGNAACTGGGGGGGGCAGNACCN

## Sequence 94

TTTCCCGGGCAGGNACAGCTCCATGAGGTCACCAAGCATCCCATCACCCNTTNCCGGCAG  
TTGCATGGCAATGGCTGCCAGGCAATGGCACATCAAAATCCGGGCAGCGTCTTGAGCACT  
GTGCAATTGAGTCAACAAGGTCTCACTACTGACTGGCTAAGATGGGGCCTGCCCTTGGC  
CAACTTCACCATACAGTTTAGAGCAATCTTTAAAGTGGNCTGAGCACCTGGACTATCATC  
TTGACTACAAAGTACCT

## Sequence 95

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTATGATAACATTGCAGTCAAACATA  
TCTTGTGACAGGACAGTTTTTTGTGGGGAGGAGAATTAGACCAAGTTCCGGAGATATATTT  
TAGGAACATAAAAGGAACGTAAGATCTGGGGTAGGGGGATGAGCAGCTCCACACCCCTGCTC  
CTGTGTGAGCTGTGCGCTCCCGACTGGGAAATGTCTAACTCCATCGAAAACATGAGATGA  
GGGGCAGGGAAGGGGCTACTTCCAAGCCTTTTATTATAATACTGTGTGTAACCTTTTGCA  
TATTTTCAGAAAAGAAACCAGTAAGGTGGGTTCAGTTGTGGGCTCATCCTGACTTAGAAA  
ATTTTAAATAATTTAGCCCATTTGAAATGTTGATAATATAAGGCATGCATGAATAATAAT  
TTTGCTTCTT

## Sequence 96

AGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCCGCTGCGACAAACACCCACAAAA  
TGGCGGCAGCGCCGTGCCCCTAGAATCCCCCGAGTCGCCTCTCCCCGCGTACCT

## Sequence 97

AGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCTGAGGAGCCCCCTTCAGAGGGGGCGAA  
GAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAAGAGAATGCAG  
AGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACTTGAATTGCAGAGGTCAAGAGT  
TTAAAGAGTTTGGGATGGAAAGAAATCGAGAATTGGGCT

## Sequence 98

GCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGATGGCTTCAAGATGATTTAGGACTTG  
GGTCAGTAGCACTTACTGATGTAGTGGTTTGATACACACTGATTACCTTCTTCTTTTT  
T  
ATTCTCTGGCATTTCTCCTATATACTAGCCACTTTTAAACAATATTTGTGGGCTCTTTT  
CTTCTGCTTGTCTGTAAATATTAGGGTTCCTGAGTCCTTACCTAGATTTTCTTCTCTTC  
T  
TACTCCTGGCCTTTCCTTGGGAGAGTTCATAATTCACCTACTCCATCTAGATATTTGTG  
A  
TGTCCAAACACATCTCCACGTTAGGCTTCTATTTGTAGCATCAGACCCACACTTTCAA  
CT  
GTCCACTAGATAGCCTCACTTGGATGCTCTGCAGGCCTAAATAACCTTTGCGGACAGATT  
AACAGGGAAAAAATATTAATAGGAAAAAATATAGATTTTATCTGATGGTAAT

## Sequence 99

TGCGTTGCGCTCACTTGCCCGCTTTCAGTCGGGGAAACCTNGTCGTGGCCCAGCCTGCA  
TTANATTGAAATCGGCCAAACCGCCGCGGNGGAAGAGGGCCGGTTTTGCGGTAATTGGG  
GCGCCTCTTTCGCTTTCCTTCGCTTCACTGGACTCCGCCTTGGGCTTCGGGTNCNGTT  
TCCGGNCTTGGCCNGGCCGAAGGCCGGGTANTTCAGGCCTCCACNTCAAAAAGGGCGGG  
GTAAATNAACCGGGTTAATCCCACCANGAAATTCAGGGGGGGAATNAACCGCCAGGGAAA  
AANGAACCATTGTTTGAAGCCAAAAAAGNCCCANCCAAAAA

## Sequence 100

GAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAA  
ATATGTTTTAATATGCATATCATCCAGGCAGCATAATGTTATATTTCAAAGACAGATTTA  
TCCATTGAATTATTGTTTTAAAGTTGGGATTCTCTACATAGAACATATTTTCTGAAAT

Table 1

TTCAAGAATATTTTCAGGTAAATTAAGAATTAATTTCTTCTAAGACTATCCAATGNGTCT  
CAATCTATTCATAATATAATCAATGATAAAGATTACATGTATCACCAAATTCGAGGC  
A  
GCTTAGTTGAAAAAATTTGAAACAGCTTACTGAATTCATTTGCTGATTCTGNNGGGGCT  
TCCCCAATGGCATGNGTGCTCCTTTGGATGCCTGCAGGGGTGGTCACTGCAAAGTCGTCA  
TNTGTGCCACTGGGAGTTGGGGAGGCGGCCTGCTGGGGTTCCTGGGT

Sequence 101

GGCCGAGCCCAATTCTTGATTTCTTCCATCCCAAACCTCTTAAACTCTTGACCTNTGC  
A  
ATTCANGTTGTGAACATGAAACTTGTCTATCACCAGCCTCTTCTCTGCATTCTCTTTCC  
C  
TCCTTGNGTACTGCTAAAACTTGNATGGNCTNTGAAGATACTGCTCTTNACNCCTCTGAA  
GGGGGCTTCCTNAGGGGAAGGTACCTCGGCNCGCTCTAGAACTAGTGGAATCCCCGNGC  
TGCAGGAAAT

Sequence 102

CGGGTCCATAATAATGCAATTAACAAATCCAGGATTTAAGGATTTNTATAAGATTAAAA  
AAAAATGAGGTGGTGTGAGTGAGGAGAGAAAAAGCAGGAAACAAACTGGTGAGAGG  
AAATGACCCCTGATGAAAGATCTTAAACACCAGGCTGAAGATTTTAGATTTCTACCTAT  
TAGAAATGAATATTCAGTGAAGTTTGATGAAGAGTCACTGAAGTGTCAAAAGAAAAACAA  
GATTTGAGAAAGATTCTTGAGAACTCGTGCATAGGAATGAAGTGAATAAGGGCAGATTA  
GAGAAGAACTAGGCCATGAGGGCCTAGTATCCAGAATGAGGCAGAGGGAGGGACGCTGGA  
TGTGAGCAG

Sequence 103

ATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTTCTTGTTTAAACGCCTCACCCTG  
ACCACGGAACGTCTTGATAGAGCCATCTAGTAATTTCTAAGTCCTACCTCATCCAACCTT  
GTTTGAAGTCTGAGTGAAGCAGCTGCCCTCACCCTCCCCTCTCTATGCCCTCACCTT  
TGCAGGAGACTCTCAATTTCTCAGTCCACATCAGCTCTNAGACCACCAAANGCAAGGGTT  
N

Sequence 104

TGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACACGTCAACACGGGTGGTTGCATGCAT  
TCCTCAAGTCTGTATGACTCTACCAAGATACTGTGAAGTTGTCTTCTGATTGCACAT  
GG  
GGAGAAAATGCTGAAACTAGTGGCCACAGATGTCTTTAATTCCAAAACC

Sequence 105

AGCTNCCGCGGTGGCGGCCGCGGGCAGGTACTTTCTAGGTATATCATGTGCCCTAATG  
TGCTCCTAATATCATAAATGTTTACTTTCCGAAAAGTATTTCTGAAAGGGAGCATATTT  
T  
GGAAAGTGCATAGGCTTGTAATCATACTTGTTTTCAAGTTTCAACTTTGCTATTCAACT  
A  
GAATAATCTTGTCAAAACCTGAGCTGATTTTCTCATCTATAAAATGAAAACAATACTT  
T  
CTGTGATAATGGGTGCAAAACACAAGGTATACTGGTTTCTTTGCTCTGGATTCAAGTT  
TT  
CTTCTTAGTTTCAAAATTTTAAAGGGAAACCAAAATGTTTCATGGNCCNNNCTNCGNGG  
NANGGGANTTTTCCNCNAAAAAAAAAANTCAACGGGGGGGGTTTTNCCNNTGGGGANN  
CCCAAAAAGCCGNNTNTNGGCCANGTTTTTNNGNNNCTTTTTGTNAGGGGNTTTNGGGCC  
NCCCTGCTTTACCCCNTTTTTANATAACNNCCCCCTTTTGGNNTNGGGGNGGGGNNT  
TATATATNTTTNTGGGGGGGG

Sequence 106

GTAGTGGGCAGCGATNAGGGCTGGGGCTCTTTCCTGAGTTGTGTCAAGGTGAGAGATTGT  
GAAGAACTTGGCTTGCAAGGTTTGGGCATCAGCTGCCCATGAGGGGCCGTTCAATTGTCT

Table 1

CAAAGTGAATGTGGGGTGGTTTGATCTGCATGTGTCAATTTGTATCCACACAAGTTAATTA  
TTCTGCTTTTGTGTAGTACCTTGGTTGTGAAGCAGAAGCTACCAGGCGTNTATGTGCAA  
GCCATCTTATCGCTCTGCATTAAGTAAGATGAGGATTCACCTCTTAATTTATGGGCACAT  
T  
TTAGTTCCCTCCACACAAATTAAGGCCCTTAACCTCTTNATTTTTCTACANTGGNNGG  
T  
TTTGAAGTAATATTCATACGGGCATGGGACCT

## Sequence 107

CAGAGAAAGCTTGCCAACGGTGATAAGTAGGTTTGTCTAGCAGCACTGATGCGTCGTGGA  
AGTTGATGGTCATGAACATACAGTGTGATAACCTATCTGCCCTCTTGACCTTTTCTAGT  
A  
GTGCTATGTCAATTTGGTACTAAGGTAGGTGAATTTCCAAGTGTCTTGAAATAAG  
GA  
AACATCAAGAATAATGTAAAAGCCTCATATACAATAATGAATAATAAGAATAATGTGAA  
GGCTTCATTCAAGGTTGGGGTTTGCCAGATACATTGCAACAAATGACAGAGCAGCCAAG  
GTATTTAGGGATAGTGGCCAAAGTATTGAATGATGGCTTATGGGAGTGTCAAGCTGGAT  
AAAAGAGTGAAAAATGGAATAAAAACTAATGGGATTGGTTCNANTCCGAAATAGGCAG  
CNCNGCCCCAATGGCNCCTATNGCCCCGTTTNAATTAGGGGG

## Sequence 108

NCCGGAATGGAATTCACATCAAGTGTCTGTGCCTCGCTGCTGAAGGATAACCCAGAGTG  
CAAGGTCATCTTTGTTGCTGAACAGGGCTGGACCTGTGCGCACTTAAGCACACTTAAAGGA  
TTCTATTCTTCATTAGGTCCCCCAGAGAAATTGGCTCCTATTTTTCTTTACCTATTC  
C  
TAGACTTCCTTTTGTCTAGAGCCAGTTTTGCAAAGGGCACTTTTATCCATCTCAGTTAT  
T  
CCCAGAGGTGACAGAATGAGTAAACCATATGGGGCAAATAGCATATATGAGCTAAACCA  
NTAACTGTAAACCAAGGCACATGGTCAATGCCCTAGTATTTTTTTTTTTAAATCTTCC  
TAAACGGTTATTTTCTAGCTGTACATTCCCAAAA

## Sequence 109

GCGTCCGAGACACTTCTCTGACTAACCATAGACTATGTGGAAAATGGTAGCTGGATTGCC  
TTTGGGTGGAGTCCTTGCCCTGTGGCATAGGAAACAAAGGAAAGGAGAGAGATGCCCTTT  
GAGATTAATGAAAATGCTCTCAGCCAAATAAAATCTAAAAATAGCCTCCTTGTGATACGA  
ACGCGTGGCCCCTAAGGGTCTTAAAGAGAGAGCTAGGGGAGGTTGAGCTGGCCACAGAGA  
TGCTAAAGGTCAGGAGCAGACTTTTAGGGTTTGCTGTTTTATAGGTTTAAAGACCAGGTC  
TGTGTTTTGATAACTGAACCTTGCTAATAGCTGGCCACTTGAGTTGCTTCTCCAGCTCT  
T  
TGTTTGTTTTAAATAAAGAGATTAGCCAGTAATAATGGGAAGAGCTGCAAATGACTTCC  
CCAG

## Sequence 110

GTGCTGCCTGCACTGTGACTAAGACTTTCTGGACTATCATCATGTTTAGGAGTTGATGAG  
ATTATAGTTTCATGTAAGTGTATCATTAGATGACAACTCTACATCTTTAGGCATGGAAA  
C  
AAAAATTTTTCTGGAAGAAAAAAGTGAACATCCAACCTCCATTTAAACAAATTNGAT  
TGTTTCTTTGCTATTAAGAACTCGGTGCTCTTTCTCCCACTCTATTATATTGTCAAAT  
ACATCTGGAGACACTTTATAAACTTTTTCTCCTTTAAATTACCTGGTTTATATATTATCT  
CCTGTAGCCTGCATAAACGATAAAGGGTTAAACATA

## Sequence 111

GCNCGCGGGATTGGCCGACGCAGCCATGGTAGGTCCAGATCCCGTAGAAGGGAGCGGGGT  
CCCATAGGTTACGGCCGATTCCTGGAGCTTCTGGACTGAGGGCCGCGGTAAGCAGTGGTC  
TGGGCTCCCGC

## Sequence 112



Table 1

CGTGGCCGAGCGGTTTGCATCGCCGCTCGCGCAAGGCCATGAGGTTGGTCTGGGTGAAGA  
ACGCATCGATGGCGGCACGGGCCTGTTCCGGCACGTAGACCTTGCCGTCACGCAGACGCT  
CCAGCAATTCGCGCGATGGCAGGTCGATCAGCAGCAGCTCATCGGCTTCCTGCAAGACCC  
AGTCAGGCAAGGTCTCGCGCACTTGACGCGCGGTGATGCCGCGCACCTGGTCGTTGAGGC  
TTTCCAGATGCTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAGAGAGCAATTCCT  
GAATGTNTTGCCAGCGCTTTTCGTGGCGGATTGCCGGGGGCGTTGCTGTGGGCCAGTTCC  
TTCACCAGCACCAAGTTTTGGGCTTG

## Sequence 113

GCGGCCAGCCAGACTGGACCCCTTAGCCTCGAGGCCTTTGCTGAAGCTCATGTGAGGGGG  
CGACTGCCCTGACATGGTGTGGATTCCAGCTGCTGTGGCCCTGAAGGTGGGTGGTGGG  
AAGAACGGGAGAATGAAGCCAGCCTTGGGAGAGGTAGGACGCCAGCCCGGCCAGCTGCT  
TCCAGCATCTGGATCCAGCCTCACCTGAAGCCAGCCACCTNCTGGACTGCAAAGTCATTT  
GTNAACACCGAAACACAGGGTTTCTGACCATTGCAACCCAGGGTCCCGGCGTGTCTGGC  
T

## Sequence 114

TTGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAAGCAACTGTCAGCTAGTGAGATTA  
CTGTGTATGGCCAATCCAGATAAATAAGACGATCAAGTCTTTATGAAAAGGAAAGAAAA  
TTTGAATGCACATCTCTGTCCAGCTCAATTCCTCACTCCTTTTTTAAGATGGAGAGCT  
G  
TTAGGTTTGTCTACACAGTAGGAAACACCTGATTAAATAACAGCATGGAGCCAATCTTGA  
CAAAGAAATTGGCTGCATCCAATAGAATCCAGGGCCGGTCTGGTGGCTCATGCCTGTA  
ATCCCAACACTTTG

## Sequence 115

GGCCGGAATCGTTGCACCAGACNAGGCCCCCAGGGCCCAGCTACTCGAAGAACAAGCCAA  
TGGATTGGAACGTCCTAGGACAGATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGAT  
CTCACTGGGGTTAGTTGGTCGGAGGGGGAAGCCCCATGGGTCCACCAGGATGAGGTGTT  
AACTCTATCAGGGTACCT

## Sequence 116

GGGGCTCGTCGGTGGCGGCCAGCGAATTGGTGACGACGCTGATCTTCACGTTGCGCCCGC  
GGATCTCGCGCATCACCTCCAGCCCCGTGGCACCCGGAATCAGGTAGGGCGAGACGATGG  
TCACTTCGGAACGCGCGCGGCCGATCTGCTCGACCACGTTGTAGCGCACGCTGTCGACAT  
CCAGCAGCGGCACGCCCGCTACGACGCGGTCTTGCCCGATCACGCGGTCAGGCGAATCG  
GCATACGCCTCGGCGGTGGTCCAGATCAGGCCGAGCTTGCCGGCGTTTGAAGGTCTTCGA  
CCATCGGGCTGTAGCCGAGCAGGGTTCTGTTGGGGCGCCGGGCTTCGGCGGGGGCCGGGC  
GTTTGGTGTGCGGGGNCCCCGGTGGGCCGCGCT

## Sequence 117

GATGATGAGCTCCCCGCGGTGGCGGCCGAGGTAATCTAATGGAGCCCTCAGGACTGTCTT  
AAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAACGTCAGTTGCTGGCTTTTCCT  
A  
AATTTGTCTTCTACCTCAGATCTAAACATTGATAACATTAGGGCAATATCATGGCAA  
T  
CGTGGCCCAGTAAACCATAGCAAATGTTTTCTCCCTAGGACACTATCTGTTTTACAGG  
AAAATTTTCTCATAGAAAACTGTAGGAAAAGCCATGGGATGAGCTGAGAAGACCAAAC  
CTATCTCTTGAAAAACAACAGTAGGGAGCGTNGGATTAGGAATGTCCTTGGTGCCTGAAA  
CAGGCAGACCAATCCTGAAACATCTTCTCTGGGGACCGTAAGGCATGAAAAATTTTCT  
ATTACACTTANGAGGGCTTCTAGGGAAACAGGAAACCGACCAAAATGGGAATGGGGCC  
TTAATTCATTTTTT  
T

## Sequence 118

CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAACCGAGGCAGCAGCGGACGTGAGCGATAA

Table 1

TGGCGGATATGGAGGATCTCTTCGGGAGCGACGCCGACAGCGAAGCTGAGCGTAAAGATT  
CTGATTCTGGATCTGACTCAGATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCT  
CTGGAAGTGAAAGTGATCAGGATGAAAGAGGTGATTGAGGACAACCAAGTAATAAGGAAC  
TGTTTTGGAGATGACAGTGAGGACGAGGGAGCTTCACATCATAGTGGTAGTGATAATCACT  
CTGAAAGATCAGACAATAGATCAGAAGCTTTGGAGCGTTCTGACCATGAGGGACAATGAC  
CCCTCAAGATGTTAGATCAGCACAGGTGGGATCAGAAAGCCCCTAATG

Sequence 119

GGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACGGTCCCCTGGCCAGTGAAAGGGT  
CTAATATAAACACACCCGAGGCTGAAATAGCCCGCTGCTTGTGAGACCTTCCTCAAGCTC  
AATGACTACCTGCAGATAGAAACCATCCAGGCTTTGGAAGAACTTGCTGCAAAGAGAAGG  
CTAATGAGNTGCTGTGCCATTGTGTATGTCTGCAGATTTCCCAGGGTTGGGATGGGTTT  
ATCCTACAACGGACAAGATGAAGTGACATTAAGAGCAGAGCAGCATAACGTAACCTTT  
GCTGAATTTTCATGGATCCTCAGAAAATGCCATACCTGAAAGAGGAACCTTATTTTGGCAT  
GGGGA

Sequence 120

GTGGCGGCCGAGGTACCCGAGCTACCAGGCTGTGGAATGAGACCGTGGAGCTTTTTCGTG  
CTAAGATGCCCGTTACGGAAACATCGCTGTCGTTTCAAGAGCTATGGGCATTGTTTCACA

Sequence 121

GCTCCCCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTTCTTGGTGTAAGGCTTTAACA  
GTTCCACCTTTTACGCTGCCTGGGCATTGATTGCTCACCTACCACTATGACTAGATATGA  
TTCCATGTGCTTTTACTAGATTCTTTGTCTCTTGTGTATGGAAAGTGAGACTTTAAGT

A

ATAGTTACTGCTGAGAGAAATAGAAGACGTGACAACGTTTGCTTTCCATTACAGTAGTCA  
GCGGTTGAATGGAATTATCTTCGTTTTTGGACTGACAGATTGTTTTACAATTCAGCTA

T

TCCCAAGCCTTACTATTCAAAGCAGAACCCTTCTGTCTTCTTCTGTAGTTGCTCTCTC

T

CCCTATATTCTGTTGATTTTTTTCAAATAACTTATTACTATCTCAAGTAAAATTGTTTT  
ATGTTTTGTTTTATCTACCCCTTAATCAGGGCAGGGATATGTCTGTTGTATATTTTA

C

TTTTCCCAAATCATAAAGGTTTTGGG

Sequence 122

CCCGCGGTGGCGGCCCGAGGTACACACTGGGATCTCCTTCACTCATTTTTTAACCCCTGAC  
TGGGACACCAGAGACATGCTGCATCTTGTATTAGGTGTTTCATCTTGCAGAATGGCTGTG  
CTCCTGAAATATTTCTGTGAAGAAAATTGTTACAATCCCATTACATCACTGGCTTTTA

T

TATTAAATTGGAATGTTGGCTGGAACAATTTTAACCC

Sequence 123

GCGGTGGCGGCCGCCCGGGCAGGTACGCGGGTGTGCAACTGCAAACCAGTAACCTGCTAT  
GGCCAATTGTGAAGAGATGGGAGTCTCCCGTATTGCCAGGCCGGTCTCAAACCTCTGG  
GCTCAAGCAATCTTCCCGCCCCACTTCCCGAAGCCCTAGGATTACGGGAGTGAGCCACCG  
CACCCAGCCAGAAAAACGTTTCAAATATTGGAACCTTACTTTTTTCAATGAGCATTT

T

TGCATCAAGGGGTAAACAGGGACATTAGGCTTTTTTCTCTTAGACTCCAAACAGTAAGGT  
CAGAAATTTATCAAGACATTACATAGGAGTAAGGGCACAGCCAGGGGGTGGTGGGGGGGAG  
GGACATTTTCCAGCA

Sequence 124

GCTCACCGCGGTGGCGGCCCGAGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCCGC  
TGCGACAAAACCCCCACAAAATGGCGGCAGCGCCGTGCGCCTAGAATCCCCCGAGTCGCC  
TCTCCCCGCGTACCT

Table 1

## Sequence 125

ATTCACAAATATTTATGCATCAGCTACATGCCAGGATCTGTAATAGATTCTGGGTGTGC  
AGTAGTGATTACTGCAGAATGCAGACATGGTCCCTGCATTCTTGAGAGGGAGACAGCAAC  
CAAATAAACAAATTACAAAAAGTATGTAACATAAACAAGTGGGAGAAGGGAGTGGGAT  
TACACAGCAGAAGTGAAGGAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTGAAAGTAA  
CATGTAAGCTGAGACCTGAAGAAGGATGCAAAAGGGCCAGCATGTAAGGAACAGAGAATA  
AACATCCCAGAAATAGAAAATAACACACAAAAACCTAAAGTCATTAAAGAACATGATCAT  
CTTTCAAGAACTAACCCCTTGAGATCAGAGTAGTTTGATTATAGAGGAAAAGGGTGAGTGC  
AATGGAACGTTAAAAATAGCCAGATCACGTAGAGCTCTTAGCCTTTTGGTAGAAAAA

## Sequence 126

GCTCCCCGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGA  
CAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGC  
TTTACATCCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGA  
ACGAGTATTTGCAAAACCACTTCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTG  
CTTGCCAAAGCATNCAGAGAAGCTGCTACTGTCTTTCTGGGGCCGTGTGATGGAGANGT  
TAAAAATTTGGAATCTAACTCAAGNNGGNAATGNATTCCGNACCCTNCGNCGNTNTTANA  
ACTAGGGGATCCCCCGGGCTGNAGGGAATTCGANTAAAGCTTNNNTANTCCCCGCCAC  
CNCNNGGGGGGNCNCCCNCCCATTTTTTTTTNTTTANGGGGGGNTAATNGCCCCC  
GGGGGAAAAANNNANAAAAATTTTTNTNGNGGAAAAATTTCCCCCAAANTNTNCA  
NNAAAAAAAAGGGG

## Sequence 127

GTGAAAAACAAGAAAGCTGAGAGAAATCAACATGTTCCCAAGTGCTGTATGTGAACAAT  
AAATCTGAGACATACCTCTAAGGCTTTTCCAGAGACAAGAAGCTCTCAACCTGTAAAGAA  
TTCCTGGGACATGACTGAGAGCAATGAGAACTCCAGTGNCAGAAGGTTAGCAGATATAGT  
GTAGAGCATACAGATATACTATAGTTCAACACTGGTGGCTTAGCTGTAAATCACAA  
AATAGCACTGGAATTATCTAGTGATCATAGCACATAGTCCAAGAAGAAAAATTTTGATC  
TTGTCTTAACTTTGTGGAGCCAGTGGTGAAATGAGTCACACAAAGATGCAACAATGATT  
GAACCCAGNCCTCTTTAGACTAACATATTCTTGGCCATCACCNCCAATATTACAATAAAA  
ATCAAGACCCATGAAGGAGCATACCTTTTTCTGNAAGNAAATATTGNTTACCTCAGCTCT  
ATTGGTATTTGATGCAAAACACCCACATGCAATTTGGATCAATAAGACATGGGAAGGGGC  
CAAAATGNNACTTCATGCTTAAGGAAAAAAGGAGNGGGAAGGAGGNCACCAAGCNGG  
TNCNGNAATGGGTNACTTGGGGCATTATANGGGGGNGCTTTAAATACCATTTT

## Sequence 128

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACG  
ACAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAG  
CCTGGTAGCTCGGTACCT

## Sequence 129

CGCGGTGGCGGCCCGCCGGGCAGGTACAGTCAACGGCCGAAACCACTGAGCTTTTCCCT  
CTGCCTGGCACATATCCACTGCCCTGCCTTCTCAGCTGATGAACTCTTCATATGCCTC  
CTTTTGGGTGTCAGTGGAATGTCACCTCTTCTAGAAGCTTCTCTGGCTCTCCAGC  
CT  
GGCCCAGGGCTCCAGCTATGAGCTTCCATAACACCCCTAGTTTTCTCACATTGCCCTCA  
TAGTATATGGAATTTGTTCAATTGCCTGGCTTCCAACAGATGCCAGCTCCAAGAAG  
GCAGGAGCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACACCCAACCTAATGCCTG  
GGCCAGAGGTAGGTGCTTAATAAAAAATGTTTGAGGCCGGGGCGTGGTGGCTCACGGCT  
ATAATCCCAGCACT

T

## Sequence 130

GCCCAAGGGGGGGCCAACCCACATTATTTGNNTGGGGCNNNCTGCCNTTTTTNAANNA

Table 1

GAAANCCCTTNNCCCCCTTTTATNAAATAAACCCCCCNNGGGGNGNGGGGGGGGG  
GGGNGTNATANNNGNANNNGTCTCNTNTTTTNTCCTTTAATTCCNANAAATAAACTT  
GA  
CNTTCGCTTGNGCTTNGGNNGGTTTCGGGCTGCGGCGAAGCCGGTATTCAANCTCACTCA  
AAGGGCGGNTAATACCN

Sequence 131

CCGCGGTGGCGGCCGCCGGCAGGTACCTATCTGCAGAACGGTCATTAGCAGTTTTTCC  
AAACAAGCGACTTTTAGCAAATTAACCGTTAATTTAATGAGATTCAAAAGTTAATAGC  
C  
ATTCTTAACGTTTTATAATTAGAAGCTGTTATATAATTAGAGCTGGACACCCACATGGA  
G  
AAACTAATTTGACTGTGCTGCATTTGACTTCACTTTGGTAACAGGAAGCACTTTTTAGT  
C  
TGTAGACCCTTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACTATTATATACTT  
A  
GGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAAACCTGGAGTGAGTTATTATTTCC  
CTGGTAATACAATTCTCTGCCAGCCAGTTGCTGCATCAAAACAGTTCTGATACACACACC  
TAAAGTCACCACTTCTCATTCTGGTCCCCAATAACCCCTATAAGCCTCTCCCTTGGAGGT  
GACCTCTGCCCTGTGAAGGGTTGGGCTC

Sequence 132

CGCGGTGGCGGCCGAACCGTGGTGGCCGTGATCGTGCCGTTGGCGGACGGAACCTTGAAG  
ATGTTCTGGGCGGCCAGCACAAATCGCCGCTTGCCGACGATGACATTGTTGGCCTTCAGC  
CCGTCAATATCGCCCTTGATGTGATGTTCTGGCTCTCCTCATCATGGCTCAGCGCAATG  
GCGGCGTTGCGCTTGCCGGTGGCCTCCACGAGGAACAGGGCTGCGGCCGTCGACACATCG  
CTGGACGCGAGGGTCAGGTTGCCCTGAAGCAGCCCCTTCTTGTCCTGGGTGACATCACCG  
CGCAGCCGCGTGCCGCCGGCAATGAACTGGATATTGCTCAGGCGTTTTTCGTCTTGTGC  
AGGGCAAGTTCCGTGGCAAGATCGGCCCGCACGCCGTCGAGGAACGCCAGACCG

Sequence 133

CGGTGGCGGCCGAGGTACGATAATTCATGCCAATTTCTTTGGGAATACTTGTTTCTGATA  
TAATAGGTTACAAAGCAAAATTGAGATGATTTTTAAATGCCATGCAGTTATTTTTTCT  
G  
AATAACATAAATTTTAAACAGAGACCTGAAAAAACCCCAAAAGTATTAACCTTTAAATA  
CATAAACTCAATAGAAATAATTTAACTGCCCTTCTTCAAGAGGCAATCAGAAGGCAG  
GACTATAGTTTTCTGTGTTTCTTTCCACAGGAGAGATAATTACATTTCTAGAGACCCA  
T  
AGAAACAATTCCATAGTTTTAATTC

Sequence 134

TNGACTCCC GCGGTGGCGGCCGCAAGTGTGGGATTACAGGCATGAGCCACCACGACCG  
GCCCTGGGATTCTATTGGATGCAGCCAATTTCTTTGTCAAGATTGGCTCCATGCTGTT  
AT  
TTAATCAGGTGTTTCTACTGTGTAGACAAACCTAACAGCTCTCCATCTTAAAAAAGGAG  
TGAGGAATTGAGCTGGACAGAGATGTGCATTCCAAATTTTCTTTCCCTTTCATAAAGA  
C  
TTGATCGTCTTATTTATCTGGATTGGCCATACACAGTAATCTCACTAGCTGACAGTTGC  
T  
TCCCGCGTACCT

Sequence 135

TTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCTCCTGCAGGGCCCTCCATTCAGGGTCT  
TCCTGGAAAACCCCTGGAGGAAGCGCTCCTGTTGCAGTCGGAGTGAACACCCGCTTTGT  
TTAACCACCAGCAGGGGGATTCTTTCTGGAGAGTCCATGTAGTCATCATCTCTTTGACC  
TCTGCATTTTCCCCCAGAAAGGCGAGCATGTTACTTGTATCTTGGGATCCGAATGACAA

Table 1

ACTCCACCAGATGTAAAATCACTTTCTAAACAACATTTGACAGACTGCTCCACAAGTCA  
TCATTCTTAGCATTCTATAGCTGAACTTCTTTAAGTACCTGCC

CG

Sequence 136

AGCTNCCGCGGTGGCGGCCGAGGTACTTAAAGTATATCANGGGCAGTTTCATGCCACGG  
GAGCCAGGGAAGGCACCCAAGGAAGTGATGGAAGAGTAGAAGTTCACCAGGTGCAGCTCA  
GGAAAGGGCTCAGCAAATTTCTCTGTAAACAGGATGCAGACCCCGCGTCTGCCCCG

Sequence 137

GCCGAGGTACTAAATTTAGCAACTTTATTCATGAGGAACACCAGTCCAATGGTGGTGCTC  
TTGTCCTTCATGCTTACATGGATGAACTCTCATTTTTGTCTCCAATGGAGATGGAGAG

AT

TTTCTGAGGAGTTTCTTGCTTTGACATTCAGTGAAAATGAGAAAAATGCTGCTTACTAT

G

CTTTAGCAATAGTGCATGGAGCGGCTGCTTATCTCCCAGACTTCTTGGACTACTTTGC

TT

TAATTTCCCCAACACTCCAGTGAAAAATGGGAAATTCTGGGCAAGAAAGATTTTTGAACC

ACCCCCCATTTTAAATTTTTNACCTCAGGGGAANNAGGGACNATCCTGGNTNGGGGNCC

CNCACCGNGGGGGNTCCNTTTTGGGGGGAAAAAANATNTTTNTTGTGGNNCNAANAAA

AAAAAAAAANNGGGGNTTTNTTTTTCCCNCCCNTTTTTTTTNTNTANAAAAAAA

C

CCNCTTTTTTTNAAAAATTTT

Sequence 138

TNCCGCGGTGGCGGCCGAGGTACTCGGGAGGCTGAGACAGGACAATTGCTTGAACCTAGG

AGGTAGAGGTTGCAGTAAGCCAAGATCGTGCTACTACACTCCAGCCTGGGTGACAGAGTA

AGACTCCATCTCAAAAAAAAAAGAAAAAATTGACTTTGGAACCTCAGATTACATATCAG

TTTGCATACATGCTAAACAGAGAAATGTCCTCAAAATTCAGTTACTAAAAATTACTGAT

A

TCTCCATGATTAGAACCACTGTGGTTGTGTGTGTAGTCAAAGGAGGAGAATTTTTAAT

GCTATATAAGCATAACTGATAACTGCTATTACAAATAAATATTCCACAAATTTGGAAG

T

TATTAGAGGAAGAATTTTTTTCCCTTGTAATTTCCAGGTGTTTATATTAGTTGGGCCAT

A

GTGAAAATTACATGGAGGAAAGAAAAATAGGGAAAAATAAGTCACAGAAAAAGAAAA

Sequence 139

TTGGAGCTCCCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCTTTCCATCCCAAACTCT

TTAAACTCTTGACCTCTGCAATTCAAGTTGTGAACATGAACTTGTCTATCACCAGCCT

C

TTCTCTGCATTCTCTTTCCCTCCTTGTTATGCTAAAACTTGGATGGCCTCTGAAGATAC

T

GCTCTTACCCCTCTGAAGGGGGCTCCTCANGGGAAGGTACC

T

Sequence 140

TCCCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACGACAGCGATGTT

TCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTC

GGTACC

T

Sequence 141

TNCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCTTTCCNCCAACTCTTTAAACTC

TT

GACCTCTGCAATTCAAGTTGTGAACATGAACTTGTCTATCACCAGCCCCCTTCTCTGCAT

TCTCTTTCCCCCTTGTTATGCTAAAACTTGGATGGCCTCTGAAGATACTGCTCTTCA

CC

Table 1

CCTCTGAAGGGGGCTCCTCAGGGGAAGGTACCT

Sequence 142

NGGTTGCGCTCACTGCCCCGNTTTTCCAAGTCAGGGAAAACCTTNGCNGGCCCNNTTTNG  
TTTTAANANAANNTGNGCCNCCCCNCGGGGGGGGGGGNGNNTTTTGNATNTNTTGGGG  
CCNNTTTTCCCTTTCCNNNAAAAAAAAAAAAANCNCNNGCCCCCNGGNNTTTTGGGG  
GGGNGGGGGGGG

Sequence 143

NNGACCTAACCTNACATTTAAATNGCGGTGGCGGCTTAAGTGGCCCGCTTTTCCAAGTCC  
GGGAAAAACCTNTTCCNNGCCCAANCTTTGTANTAAANGAAATCCGGCCCAACCNCNC  
GGGGNGAAGGGNGGGTTTTTNGCNATTATTGGGGCNCCTTTTCCCGTTTNTTGNNTNNN  
NNNANACCCCTTNGCCNCNGGGGGGATTGGGGGGGGGGGGGGG

Sequence 144

GAGCTCCCCGCGGTGGCGGCCGTTGCCCTTACATCTCTCATTGGAACGTGACACGGTAT  
TAAATAACGGCATATGAAAGCTTAAAGTCATCAAATACAATCACTGGGTACTTTGATT  
ACCCAAACCAGGCACTTTCCTAAACTCCCACCTTCTTACTTCTGCGGTCTCCTTCTT

T

TATCCCCCGCGTACCTGCCC

G

Sequence 145

ACTCCCCGCGGTGGCGGCCGAGGTACCGAGCTCCNGGCTGTGGAATGAGACCGTGGAGCT  
TTTTCGTGCTAAGATGCCGTTACGGAAACATCGCTGTCGTTCAAGAGCTATGAGCATTG  
TTTACA

Sequence 146

CTCCCCGCGGTGGCGGCCGTTATGCTTAGCCNGTTTATTCTTTATTTTTTACTGGAG

TC

ATTGCCAGTGATGGAAACGGTGTTTGCTTCTCTTTCAGTCAAGATCTGCACAAAGTATAG  
CATTAGGTGGTATTTATTGTTTATATTATGAGTTCTACATTCATCTTCCAGCACTCTGA  
AGTTATCAGCAAGTTCTCAGTCAGTTCAAGGCATTGGATTCTGCTTGATTTCTTTTAA

T

TCATTGTTTTGACCCCTTTGAGAGTTTTAATAGAGAGGAGTCTGGAAGGCAGAGATCTC  
CACCACCTAACCGTGAGAAATTTGGAATAAGGACTTGCACTGGTCCCCAAGTTAACAGG  
GGATATACTTCTGCAATTTCTCTGNTCTTTCTTGCC

Sequence 147

TGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCAAGGTGGGCATTTTTTAAAAA  
ACCCATGGAAATAAATGCTACTTCTTGTTAGTGTTGTTTGAATAAACAAGAAATGC  
AAACAAAACAAAACCATGGTCCATTCAAGCTCAAGAGTATTTAACCAATGCTCTGTTGC  
CTCTTAAAGGATTGGTAGCTATTTCCCATCTACAAATACATGACAATTAAGCCCA  
ATTCTTTAAACTATCTGGAATTAGGTCAAAATTATCTAATTTTTTCTGATTTAATTAT  
GGATTACCGTAATCCAATAGTTGGCAACATTATAAAACCCTAACCTTACCTCATTGGTT

T

GGCTATACCAAGGTCTCATGGACTCTTGACATAACCACCATCTTTCCTNCCAACACCC  
CGNGTACTTCAGAGTAAAACCCGGGAGCCTTCATGATAACCATGAAGGCCCGGAAGCTT  
CTGGCTTCCAAGGCTTTCTNTNGCCTNACCTTCCGGTGGTTCTTTCT

Sequence 148

GGGTGGCGGCCGAGGTACCTNTGTGCGCGGTGGNCGAAAAAGCACCTGGGTGGGTGCAG  
ACTGCGGAGCNGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTGGACTTATCCTACCT  
TAAGTTGAAGCAGACCAGCAATTGTTGTGACCTACAATCTCCACACCCATCTTACTCTG  
AGCCAAGGAAGTGCTGTTCTGTGCTGAGTTTNAAGGGCCTTCAGCTNGNGGGAAATCC  
CNAAGA

Sequence 149

Table 1

AGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGAGGGGTGAA  
GAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAAGAGAATGCAG  
AGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACTTGAATTGCAGAGGTCAAGAGT  
TTAAAGAGTTTGGGATGGAAAGAAATCAAGAATTGGGCT

Sequence 150

CNCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATTGCTCTTGAAACGACAGCGATGTTT  
CCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTCG  
GTACCTCGGCCGCTCTAGAACTAGT

Sequence 151

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGTGTTTTGTTT  
T  
TTTCTGTCCCCTCTGAGCCATGGAAGATACTGGAGTTAACAAAAATTTATAAACTAAAG  
AAAGCAACTTTATAATCTAAAAGAAAGCAACTTTCCCTCCTGTCTTTGAATTCCTTATTC  
CTGAAAGAATGGATAATGAATCAGGAGATGAGCAAAAACGTATCTTTTACAAAGCTCTAG  
TCTTCCAAAAGCCTCTAAACTCAAACGAAACCTTTTTAAAGTAGTTTTGTAAAAGCTCA  
A  
GGTATGCCATTTCCAGAAAAGTTGCAGATGAGCACCATTGGGCATTACCCAAATTCTGTCA  
CATTGAGCAATGAAATTCAGGGAATTGGGACAATGACCTCTTGGGCATATGAAAGAAT  
TAAAAGAGGGCTAGGGCTTAGGGAGGGGGGATCTAATCGGGAGGGGATGTTCTGTCCCN  
GCCCTTCCTTCCTTCT

Sequence 152

TNCCGCGGTGGCGGCCGAGGTACNCCTAAAAAGTACTGCAGCAGAGAAGAAAACATTGG  
ACAAAGAAGAAAGGCGACAGAAGGCTAGAGAGAGGCAGCAGAAATTGCTTGCGGAGTTTG  
CTTCACGACAGAAAGGCTTTATGGAACTGCAATGGATGTTGATTCTCCTGAGAATGATA  
TTCCTATGGAGATCACCACGGCAGAACACAGGTTTCCGAGGCAGTATATGACTGTGTTA  
TTTGTGGACAGAGTGGCCCCCTCCTCTGAAGATCGACCTACTGGATTAGTTGTACCTGCCC  
G

Sequence 153

GCGGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGTCTGTTGCCTCCTGCATTTT  
GGCCTCTGTTCTATAAAGGAAGAGTAAAGATGGAGCTCCTCCTGCCTCCATCACGAAAGC  
ACATATCATCTGTCCCCTTTGGATTTTACTTCCAGGACGCGTGTGTCGCCAGCGTGTG  
TT  
GCCCTATGGTGCCGCGCAGAGCCTCAGCTATCTGCCTGGGAAGTCGGATGTCCTTGAGAG  
AATTTGGAATGCAGATAATTTTTCTTATTCTTGAGAGCTTACTTTAATCAGCATGACA  
C  
TACCTAAACACTGAAGATGGCCTTATATTAGTAAGATTTGCACAAAATTAAGTATACCT  
A  
TGCAAACTATTACTTTGGTTTTTAGGAGTTTGATCAGATGAAGAAGTNATGGTATCACA  
T  
ATATATGTAAGAAGGCCAACCCATCATTATTTTTGNAAGTGNTTTTTATTAAAAACC

Sequence 154

CNCCGCGGTGGCGTNCGGCCCCCGCCTTTTCTGCGGCTTTCAGCTGCGCGTTTCAGGTG  
TCAATGAGGTCGTGCGCATCTTCGAGACCGATGGACAGGCGGATCGTGCCCTGGCTGATG  
CCTGCGCCCGCCAGCGCTTCGTGCTCATGCGGAAATGCTGTGGTGCTGGCCGGGTGGAT  
CACCAGGCTGCGGCAATCGCCACGTTGGCCAGGTGGCTGAAGACCTTGAGGGTTTCAAT  
GAACTTCTTGCCCTGCTGCGGTTGCCCTTGAGGTCAAAGCT

Sequence 155

CGCGGTGGCGGCCGCCCGGGCNGGTTATAAAAACGAACATGTATAAACGCTTACGCAAACC  
CTTTTTAATGTTCTGAAGTCAGTCTTTGTAAGTGAAATCGCTGGAGACTAGAAAGTATG  
A  
AATGGCAGTCTACCTGGGCAACCTACAAAAAATTTAGCTTGAAAAGACTTCAGTCTCCGC

Table 1

TCCCCTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGAAAATTATTTA  
GGAAAGTTTGTTAACTACTCTTTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAG  
AACTGGAAAATTATTTGGGAAAGTTTATTAAC

Sequence 156

CTGGCGGCCGCCGNNCTGGTNCTTNCATCTNCGCTNCCTATANGCTNTCTTTTTTACAG  
ACGGCCATGAAATGCAATCCAGCTGAAGTATTATCATCTTGTAGCATTTCAAAGGAACC  
GTCGAAGTCATCCAAAGGATGGGAACCACAATGTTCTTGTGTTCCCTGGGTTCTTA  
AT

GATTTCTGAATCATCATTATTAATTATGGAATTCTCTGGTCGAAAAGTCACATTTGGTT  
T

TCTCCTCAGTTTCTCACATCTTTTTCTTGCAGCTCTTCTCAGCTCTTCTTCCTTGCCT  
TTTTTACTGGCCTTTCCTTGTCTTACTTCAGGTGGTCTATTTTGACCTTTAAGAAGG  
T

TGAAGGGTGGTNCAAGCATCACCTTGGTTCNAATAAAATTAATGGTGTAGGTTTCTGGT  
GGCCTTNGTTTAAACGCAAATGGGGGTTTTNANGGGGGGANAAGGTTGGGGT

Sequence 157

CCGCGGTGGCGGCCGAGAAATGTCGCCAACTGCCGTCTTCCCTCCTCGGCCGCTGCGAC  
AAACACCCACAAAATGGCGGCATGCGCCGTGCGCCTAGAATCCCCGAGTCGCCTCTCC  
CCGCGTACCT

Sequence 158

CCCAGGGCCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACAGATGCCA  
CGGCTTTGACCCAGGCTGGGGGTGCACAGGATCTCACTGGNGNTAGTTGGTCGGATGGGA  
AAGCCCCATGGGTCCACCAGGATGAGGTGTTAACTNTATCAGGGNACCTTGCCCCGTCT  
AGAA

Sequence 159

CCCCGCGGTGGCGGCCGCCGCGGCGAGGTACACAGGACCAATGCTGCCCATCCCATGGAAT  
TTACAAACATTCTACAGCGCAAAAGGCTCCAGACTTTGATGTCAGTGGATGATTCTGTGG  
AGAGGCTGTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTTACA  
CCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAAATCCATGCCAT  
ATGACTTTGATATTCGTGTGCCTTTTTTTATTCTGTGGTCCAAGTGTAGAACCAGGATCA  
A

TAGTCCACAGATCGTTCTCAACATTGACTTGGCCCCCACGATCCTGGATATTGCTGGGC  
TCGACACACCTCCTGATGTGGACGGCAAGTCTGTCCTCAAACCTTCTGGACCCAGAAAAGC  
CAGGTAACAGGTTTCGAACAAACAAGAAGGCC

Sequence 160

TGGCGGCCGCCGCGGCGAGGTACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAA  
CATTCTACAGCGCAAAAGGCTCCAGACTTTGATGTCAGTGGATGATTCTGTGGAGAGGCT  
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTTACACCGCCGA  
CCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAAATCCATGCCATATGACTT  
TGATATTCGTGTGCCTTTTTTTATTCTGTGGTCCAAGTGTAGAACCAGGATCAATAGTC  
CC

ACAGATCGTTCTCAACATTGACTTGGCCCCCACGATCCTGGATATTGCTGGGCTCGACAC  
ACCTCCTGATGTGGACGGCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAA  
CAGGTTTCGAACAAACAAGAAGGCCAAAA

Sequence 161

CGAGGTACCATCCTATTAATACTAATTCTGCTTCTACATACTGTAGACCTTTCTGGAT  
G

ATAGAAATCAATGCAGCGGGTGGGACGAGGGCACCATTATATTGGACTGACTGATATGG  
CTTCTATACCAAAGGTAAATGCTGAATGAGAAAATCCTGACTCTTGCAAGTATCTATA  
T

ACCAAGAAGTTGACCTCATCACTGCTTATACTCATCTTTATTCCCACTTAAACCATGAG



Table 1

G  
TCCCAACACAGGATATAACCCATTGGGCAGTGCATTGATGTGGGGGATGTGCAACTGANT  
ATNCCGGTCACCCGCCAATCACAAGTTTGCTGGTGTGATGCTGGAAACGGTGGCCTCCA  
ACGCCGCTCCCCCTCCCGGAA  
Sequence 162  
GGCGGCCGAGGTACCTGGCCTGCTGGCATAGTTCTTTGACCCGTTTCATATTTGGGCAAGT  
GATTTGACTGTTGGATATTCTTGCTGGATTCTCTTCTTACGTAGAAATTTGCCTCTT  
T  
CCACTAGGAATGTATCACGCCAAATTTTGGCCTTCTTGTTTGTTCGAAACCTGTTACCT  
G  
GCTTTTCTGGGTCCAGAAGTTTGAGGACAGACTTGCCGTCCACATCAGGAGGTGTGTGCA  
GCCCAGCAATATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA  
TTGATCCTGGTTCTACACTTGACCACGAATAAAAAAGGCACACGAATATCAAAGTCAT  
ATGGCATGGATTTCCCTTGACCAGTCCAACTGCCCAATATGGTAACCATGGTCGGCGG  
TGTA  
Sequence 163  
GGGGCCNCGCGTCCGGGTGGCTCTATGTAGTTCTAATTTGCATTTCTCTAATGACTAACG  
ATGTTAAACATATTTTTATGTACTTGTTTCATGTACTTGTTGATATGTCTATTCAATTCC  
TTTACCATTTTTATGGAGCTGTTTTTTATTATTGAGTTGTAGGATTTCTTTATATG  
CTGCATACCAGGCCTTTGTTATATACATGCTTTGCAATGTACATTGTCTTAAATCTGT  
G  
GCTTGCCTGTTCAATTCATTAGTGGTGTGTTTGTGAAGCAGTTTTTAATTTTATGATGAAGT  
G  
TAACTTATTCATTTTTTATTATGGTTATTGCTTTATGTTTCAGGTCCCAAATTTTGCCTT  
CTCACAATCACAACATTATCCTATGTTTTCTTCAAAAATTATATGGTTTTATGTATT  
TTCAATCTCAAAATATTCTCTAATTTTTTTGCTGATTTATTCTAAAGAAATTTGAGGGA  
TTTGCTATAATGG  
Sequence 164  
CCCCGCGGTGGCGGCCGCCGGGGCAGGTTATTTAATTTCTTAGTGTCTCAATTTCTCC  
TCTATAAACAGAGATAATAGTATTTAGCCCAGAGGGTTGTGGTGAAGTGTGAATCATT  
CTCCATGTAAAACACATAGGACAGGCTGGGCATGGTGGTGGGCACCTGTAATCCCAGTTA  
CTTGAGAGGCTGAGACAGGAGAATCGCTTGAACCCGGGAGACGGAGGTTGCAGTGAGCCG  
AGATAGTGCCACTGCACTCCAGCCTGAGTGACAAGAGTGAGAGTCCATCTCAAAAAAAA  
AAAAAAAAAAAAAGTACCT  
Sequence 165  
NCCTGGCATCAGCNATTAGNAATCAACCTGTTAATCCAAGGTCTTTAGAAAACTTGAAA  
TTATTCCTGCAAGCCAATTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGG  
GTGAGGAAAGAAGATGTCTGAATCCAAGAATCCGAAGGGCCGTCAAGAAATTTTACCTGA  
AAGGCAGGTTAGGCAAGGGAAGGGGTCTAAAAAGATCTCCCTTAAAAACCAGGAGGGG  
GGAAGCCAAAAATCCGATGCCAAGTGCTTTCCCAAAGGGGATTGGGGACCACCACCAAGA  
GGGCCTGGCCCTTCTTCCCATCACTTTCCCTTACCATTGGGGAGGTAATTATTGTCAA  
GGCCATTAATTTGGTTTCTTTAAGTTTTTGGCAGGTTTACCGCCTTAAAAAGGGTG  
GA  
CCCAAATGGATTGGGTCCACCCAAAATCNAGGCTTGCTTACTTACTTCCCTGGTAAGGGA  
A  
Sequence 166  
GTGGCGNCCGTNCGGNCAGGTAAGTCTGCTCAGCCTTTCCAGGCCCTNTGATGAGCTCTCT  
AATCAGCAGGACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATGGATGGAGA  
AGAAAGGTGGACAGCCTGTTCTCTCATGTCAGCCTAGGGCTGGGAACAGTTTGTGAG  
GACTTATCTGTTGTACCT

Table 1

## Sequence 167

GCNGGCCGCCCCGGGCAGGTACGCGGGAATGGGCACNNTGNAGCGCAAGTAGGTCTACAAG  
ACGCTACTTCCCCTATCATAGAAGAGCTTATCACCTTTCATGATCACGCCCTNGGGNATC  
ATTNTCCTTATCTGCTTCTAGTCCTGGTATGCCCTTTTCCTNAACCACTCACAAACCA  
A  
AAACTTAACTAAATAACTTAACAATCCTNAGAACGCCTCAAGGNAAANTAAGAAAACCCG  
TCNTGAACTTATTCTGCCCCGCCCATCATCCCTTAGNTCCCTCAATTCTGGNCCCT  
CN  
CCAANCCCCCTACCGCCAATCCCTTTTTACAATAAAACAGGACCGAAGGGTCCAAACNGAA  
TCCCCTCCCCNTTACCCATTCAAAAAATCAAAATTNGGCCACCCAAATTGGANNACCTT  
GAAACCCCTAACCGAAGTTACCTTCGGGCCCGCTTCTTAAGAACTAAGGNGGGAATCC  
CCCCNNGGGGCTGGNAANGGAAATTCGGATAATCAAAGCCTTAATTCCGAATANCCCG  
GTCCGAACCCCTTCGAGGGGGGGGGGGCCCCCGGGTACCCCCANGCTTTTGGGTTTCC  
CTTTTA

A

## Sequence 168

ATNTTCAGGAGACGCTCNGTAGCCCTCGCGCTNTATCCTNCGGNACAGTTCTGCGGAAGA  
AGTGGCTCACGCCTTCCAGAGCCACATCATCGCGNCGAAAGNGAAGCCCAGAGAGAGGT  
AGGTGTAGGAGGCCTGCAGGTACCTCGGCGCTCTAAGAACAANGNGGATCCCCCGGGC  
TGCAAGGGAATCCCTTANCAAAGCANTANTNAAACCCGTCCGNCCNNNCAGGGGGGGG  
CCCCGNTACCCNAANCTTTTGNNNCCNTNATAGAGAAGGGNGAAAAAATNANGCCCNCC  
TNGGGGCAGNAAAAAATGGGGACAATAAAGCTNTTNNNCNNGGGGNTAAAAANTTGT  
TAAATCCCCCNACCANNAATTTTCNCNAAACAAAAAATAAAAAANCNCCGNGGANNGAN  
AAAAAANNGGNATAAAACACCCCNNGGGGNGGGTCCCNCAAAGNNGGGGGGGGACCN  
CCNCCNAAACAATTAATGTGGGGNNGGNGGANANANAATNGCCCTNNTTTTTNTANNGNG  
ANAAAAANNTTGGNGCNGNCCCNACTTCTANNTAAAAAANACCCCCCNCCCN  
CCCGGGGNNAGNGNGNNGNNTTACTTTANNGGGCNANNTTTTTCCNCCTTATNAA  
AAAAAATAACNNGGCACNNGGGAATTTNNGGGGGGGGGG

## Sequence 169

TTTTGAAGCCCNCTTNCCGCGGNGGCGGCCGCCCGGGCAGGTACTTCCACTATTATTGAA  
TGATTCTGTATTATAATTGTATTTGATTGCCTATCTCCCCTCACTGCATTATACAT  
TTTCATGGGTGAGCCAATGTCTTTTCACTCTATTTCACTGCCCTGCACATTTTCTGGC  
A  
CATAGTAAGCATCCCATGAGTATCTGATGAATAAATGTATTTCCAAATTCAGGTTCACT  
A  
TCCTTAATCTGAAAATACAAATCCGAAATGCCATAAAATTCAAAGCTTTTTGAGGACTG  
ACCTCGTGCTCAAAGGAAATGCTCATTGGAGCATTTTGGACTTCAGATTTTCAATTAGG  
GATATTCAACCCGTAAGAATAGTGCCAAATTTCCAAATTCAAAAAGTCTGAAATCCAA  
AACACTTCTGGTCCCAGGTATTTTGGATAAGGGATACTCAACCTGTACCGTAAATACAT  
GCATACTTCGATAGCACATGTGAAGGTATCTCTCTAAATTGACCTCATTGGTTTCGT  
T  
CTCAAGCAAACCTGACCTGGGGCCACTCAACATGGCTTTTATCGNGCCTGATGTTAATGCA  
TGTCTCTTTTACAATA

## Sequence 170

AAGTCTACATTTTATGTAGTGGTTAATGTTTGCTGTTTCATTAGGATGGTTTCACAGTTA  
C  
CATACAAATGTAGAAGCAACAGGTCCAAAAAGTAGGGCATGATTTTCTCCATGTAATCCA  
GGGAGAAAAACAAGCCATGACCATTGTTGGTTGGGAGACTGAAGGTGATTGAAGGTTACCC  
ATCATCTCACCAACTTTTGGGCCATAATTCACCCAACCCTTTGGTGGAGCCTGAAAAA  
ATCTGGGCAGAATGTAGGACTTCTTTATTTGTTTAAAGGGGTAACACAGAGTGCCCTTA  
TGAAGGAGTTGGAGATCCTGCAAGGAAGAGAAGGAGTGAAGGAGAGATCAAGAGAGAGAA

Table 1

ACAATGAGGAACATTTTCATTTGACCCAACATCCTTTAGGAGCATAAATGTTGACACTAAG  
TTATCCCTTTTGTGCTAAAAATGGACAGTATTGGCAAAATGATCCACAACCTTCTTATTCT  
C

TGGCTCTATATTGCTTTGGAAACACTT

Sequence 171

GGCGGCCCGCCGAGCGGCGCGGAGCATGATGGAAGTCGTAGTAGGAAATGGCGTCGTGGC  
ATTGAGGGGGGCATCCCTCCTAGAACCTCCAGGAAAAGCTCGCGGAAGACGAGGTTCTGCG  
GAGAGAGAGGCTCCAAGCAGTCTGGGAAGTGTAGTCCAGTTGGCTTAGCAGTAGTTTCGT  
TGGGGGGGAGCCCGAGGTTCCGGGAAGGGGCTAGGCCGGCTTGAAAAGAGATTATGACTG  
TACCTCGGCCGTCGAGCGGCCCGCCGGGCAGGTACAACCTTTATACAACCTCAGGAGATTA  
AAAAAAATCTCCACAAGAAGAAGCAACTCANCAGGCCCTGGCATTAAACATTTCCCAG  
AATAAACAGATATGCATTGCATTAAAGGTAATTTCAAATATTTAAGTTACACCAAGATT  
TCCCTCCAATATGTGCCTTTCTCAAACCAATGCAACTAATTCATTGCTAATACTGGGG  
CA

TGAATTTTTTGGCAAAATGTTTATGGTTTTACTTTCTTCATTAATCAAAAAANT

Sequence 172

CGGGTACANATTTAAGGTAGATGGACTCAGGGTAAGGATAGCTACAGCTGTGTGGGGCTG  
AAGGTCTGTGGCACTGAGCTACTGGGGAAGGAGGGCTCTGTTTTCATNGTGACACACTGA  
GTTAATAAAGCACTTACTGAGGGAGCCAGAGCCAAACTCTAAATGTGCTGTAGAAAAAG  
GGCCAAGTCATTGACTGCACCACTCCTTCAGCCAGAGGTAGAAAGGATTTACTCTTCAGC  
CATCTGGTAGAGCCCCAAGAACAAGTTACATGTGGACAAAGGGAGGGAGAGGTATCATGG  
TGATTAATAAATNCAACAAAGCTGAATGATAAGNACCCCAAGGATGGAATACAGTCTGAG  
AAAGGCCTGGGCAAG

Sequence 173

GGGGCCGGGCCCCCGTAGGGGTTACCCNCCGNGGGTTATTAAGGGGTTGGNAAAAAAAAA  
AAACCACCTGGCNCANTTTCCAACCCAAANGGTNCAAANGGGGAAACCCCCCAANGGGGG  
CCCAGGCCTTGGGGAAAAAGTTGTTTGGGNAAGCCCACCAACCAATTGGNCTTGGTNGG  
GGAGGCCAACCCACCAATGGNCCTTGTGNGTAAGAAATNTGGGCNAGGGNGGTTGGTTC  
CTTGNAAGGGTATTTGGGTGGTTNCGTAAANTTTGGGGAAGAAATTTTAAAGG  
GTTATTTGTTAAGAAAGCCAAAGGGTTTGGAAAAAATGGGGAATTTGGGAAGAACCTG  
GCCAATTGGGGTTGGGGCCCATTAANAATTTGGGGAAGGNAAAAATTTGGCCCTTG  
GGTNAAGNCCANTCCTTAAGGTTCTTAACCTTTTGGAAAANGGGGAAAAGTTGGGGGA  
AGGNAACCCANTTAAGGGGGGNANGGGANGGACCCAAAAAAGGGGGGGTNT  
TTTGGTTNGGNCCCCCAATTAAGGGGTTAATTTTTTTTTTTTCCAAAAAAG

G

GAACCCANCCCCCAAGGGAAATTTGGGTGGGGGGTTNAAAAAATTTGGGGAAAAA

AAAAAATTTTAANTTTTTAAGGGTTTTTCCAAACCTTTTTTCCCCCTTGGCCTTGGG

C

CCCAANTTGGGAAAAAANCCTTTTTTTGGGCCCNTTTTTAAAAAGGNAAAAAGGGGGG

TNGGGCCCTTGGGGGNAANTTTTTNCCCCAAAAAGGGGGGTTTTTTTGGGTTNAAAAA

AAGGGGGGNCCAANTTTCNTTCCGGGGGTTTAAAAAAGGGAACCTTGGGCTTTTTT

TT

Sequence 174

GGCGAGCGGCCCGCCGGGCAGGTACCCTAGGGTGTTGTTTAAAGGACTTGATAACCAGCTT

GAAGAGGTTCTACTGACCAGAAATGGAATGAAATTTAAGCATCAATAAGGGTAATAACT

GCAAGAGACTGACATCCACTATGGTTTAAATCCATGAGGTCACAATGATACTTAATTTT

T

CATTATTCTGAAAACCAAGTAAATAAAGGCTAAGATTCAACAAGCATTTATCCAGCCTTTC

CTCAATGAAATATATCNTAAGAGAACCGAATAGTTAACATAGAGACATGGCCGGGCAAGG

TGGCTCTCGCCTGTAATCCCAACACTTTGGGAGGCCCGAGGTGGGAAGATTGCTTGAGCC

Table 1

CAAGAGTTCTAGACCAGNCTGGACAACATGGTGAAACCCTGTGCCTACAAAAAAAAAAAA  
AACAAAAAAAAAGGTCCCC

Sequence 175

CAGGACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTGGAGAGACTCTGTGGACGTAA  
GAAGGGAATGAACACAGAGAACTTTTCAGCCAGATTCTGATNGTCACCTGAACAAGAA  
AGTCAAACCTGGAGTGAAACCATGCAAATGCAGCGTGTGTGGGAAAGTCTTCTCCCGTCA  
TTCAATCTGGACAGGCACATGAGAGCTTCATGCTGGACACAAACCATCTGAGTGTTGGT  
GGGGAATGGANAGAGGACNCCCCCGNAAACAGAAACCAACCATGGGGAAAAGCCTTCAT  
TTCCCCCAGTAGTNGGTGCACCGGCTCACCAGTTAACNACCAACTTNGAAAGGAGACCTT  
TATGAATTGCAAGGGTGGTGCGGGGAAAGCCCTTTAAATTCTCCCA

Sequence 176

NCNNGNCAGGACGCGGGGGCCGNGAAGAGCTTTGCATTGTGGGAAGTCTTTCCTTTCTCG  
TTCCCCGGCCATCTTAGCGGCTGCTGTTTGGTGGGGGCGTCCCAGCTCCTAAGGCAGGA  
AGATGGCGGCGCGGANAGAAGACNAAAAGTCNCTCGGAGTCGATCAACTCTAGGCTCCAA  
CTCGNNATGAAAAGTGGGAAGTNCCT

Sequence 177

CCCCGCGGTGGCGGCGGAGGTACTTTTTTTTTTTTTTTTATGAATNATTNATTTTCT  
T  
TNTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTCTCTGCATCTC  
CCCACAGACAGGGGTGGTTCTAGA

Sequence 178

GGTGGCGGCCGCGCGGCGGAGGTACCAAACCATTTTCACTAGTTCAGGATAGGAATATTCA  
TCAGATTGTCTCTGTAAAAGTGAATCACAAAATTCCACCTGTGTAGGTGTGGGACTGGA  
CAGCTGAGTGACAGGGCCCTGGGAAGAACAGAAACCACTTTTCTCTTCTCTGAAATA  
TCAGAAGTTAAAAATCTACTCTGAGTTATATGTGCATCAATTTAGACATATTGCTGAT  
T  
TTATTATGAAAATGAAGTGCTAAAGACAAAGGATATTTCCATTCTCTGGACAGGCAGCC  
ACAGACCAGCACTGCTTGACCCATGTGTATACACATGTGTGCTTTGTACCT

Sequence 179

GGTACTCACAGTCACGCAAATTCACAGTCTGCGTGACGGCTCTCCATTCTTCTTCTGG  
CTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGATGATCGA  
TAGATAAACACACCTCTCTGAACCATCTTGGGCTTCATGGGGTTGGCATTGAGGATCC  
CTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTGTGAACCTCTCCAAATAAGAACA  
AGGACACACATTGTGTGAGGTACGAAGATCATTAGTTTCCATATGCTGAAGGTTTTTC  
CACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATCT  
A

TTTCTTCCAGCTTCTCTCTGGCCATCTTTCTTGATCTGAGACAGTCTGATCAGTTTTC

G

GCCGCTCTAGAACTAG

Sequence 180

GGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTG  
GAAGAAATACGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGT  
GAATAGTGGAACCTTCAGCATATGAAACTGAATGATCTTCGTGACCTGACACAATG  
TGTGTCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGAC  
TGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTG  
TTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAAC  
CTGTAAAGCCAAAGAAGAAGAT

Sequence 181

GTGGCGGCCGAGGTACTACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTG  
GCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTCT

Table 1

CCAAATAAGAAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTTCCATATG  
CTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAA  
T

GTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTT

Sequence 182

GCGGCCGAGGTACATGGATACGTTCTCTTCTGGGGGCGGTCTCCAGTCCTTTCTCATGAG  
GGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGATATGGAATTAAGATCCACCTG  
GTGTGATGAATAAACCCAGACTCTCAGCAACGCAGGAAAAAAAAACAAAACCTGGCTGGCG  
ATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTGTGCCCAAATCGACG  
AAAAAAAAACACTGGGAGAGCCGAACATAAAGTCTTTTAGCACGGGTACCTGCCCG

Sequence 183

TCCCGCGGTGGCGGCCCGAGGTACGCGGGGAGCGGAAAGGGAGACTGTGGGGAAGTACGGA  
GCAACAGCAGGCATGGACCAAAGCAGTGAAGGATGTATGAAAAAGATTAGCAGTGTGAAT  
CTTGACAAACTTATAAATGACTTCTCACAGATAGAAAAGAAAATGGTAGAAACCAATGGA  
AAGAACAATATACTGGATATTCAGTTGGAAAAAGTAATTGCCTATTAAGTAATGCAA  
GCAAAGGAGGTCTCCATTAAAGAAGAATGTGCTACTCTTCATAATATAATAAAGGGCTA  
CAACAGACCATTGAATATCAACAGAATTTGAAAGGTGAAAATGAACAATAAAAAATAAGT  
GCTGATCTTATAAAGAGAAAGTAAAGTCTCATGAACAGGAATATAAGAATAATATTGCC  
AAACTTGTAAGTGAATGAAAATCAAAGAGGAGGGATATAAGAAAGAAATAAGCCAACCT  
TATCAGGGACATGCAGAGAAAAGTTGAATTAATGAAGAAAAGCCCAAAGAACTTATANA  
GAAAAAGNGATGGGAANTTCANAGGTTAATGCCAAGCTTAGAAGTCAAAAAAAAAAAAA  
AAT

Sequence 184

CCGCGGTGGCGGCCGAGGTACATGGATACGTTCTCTTCTGGGGGCGGTCTCCAGTCCTTT  
CTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGATATGGAATTAAGA  
TCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCAACGCAGGAAAAAAAAACAAAACCT  
GGCTGGCGATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTGTGCCCA  
AATCGACGAAAAAAAAACACTGGGAGAGCCGAACATAAAGTCTTTTAGCACGGGTACCTG  
CCCG

Sequence 185

CCGNGCGCCCGGCAGGTACGCGGGGGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTA  
TAGCTGTCTGTTTGCATTCTGATTGGGAACACTGGGATCATTTTCATCATGCCGACAGTG  
GTGGTAATGGATGTATCCCTTTCCATGACCCGACCTGTGTCTATTGAGGGGTCCGAGGAA  
TACCAGCGAAGCACTAAGTAATATGGATGATTATGACAAAACCTGCTTGAGTCTGCATT  
AGTTGGTGTGTTGCAATATCGTTCAGCAAGAATGGGGTGGTGCAATTCTTGCCAGGTTGTC  
CTGGTGACAGACGGNTGTCTGGCATTGNNAGAGGGCCACTGGGACATTCNNTANCCANTC  
AAAATTAACNAAAGTNGAGCACNNGGTTTCCCTACCTTTTCNTTCCCATCAANTNT  
AT

ATACCANGNNGGGCGAATTTGGNNGGGCCCCNCGCCCCCTNTTCTTTGGGACTTTTAAAA  
CNGTTTGTCTNTTCCNCTTTGGGGNNGGCCATTTTATNTTGGGGGNGCCCCCTGGGGA  
ANAAANAAACCCCCNCCCCTTTANAAAAANNGNCCCCCCCCCGNNGGGGGGNAATTAA  
AAAAAATTTNCCCCCCCCCCCCCGGG

Sequence 186

TCCCGCGGTGGCGGCCGAGGTACTCACACGTCAACGCAAATTCACAGTCTGCGTGACCGG  
CTCTCCATTCTTCTTCTTGGCTTACAGGTTCCAGGTCAAGAGCTTACCCATAATTA  
A  
GACCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCAT  
GGGGTTGGCATTGAGGATCCCTACGACAGTCCCTGTCTCGTCTTCCAGAGCGCTTTGTG  
AACTTCTCAAATAAGAAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTT  
CCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAA

Table 1

C  
CCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTG  
A  
GACAGTCTGATCAGTTTTCGGCCGCTCTAGAAGTGGTGGATCCCCC  
Sequence 187  
GGCGGCCCGCCCGGCCAGGTACCAGAGATTCCAGAGAGTGGTCTTTGGAATTTCCCAACTC  
CTTTGCTTCAGTGCCCTGATCTCTGAACTAACAAACCAGAAAGAAGTGGCAGCATGGACT  
TATCATTACAGCACAAAAGCATACTCATGGAATATTTCCCGTAAATCTGCAGAATCGCTA  
CACAGACTTAGTGGCCATCCAGAATAAAAAATGAAATTGATTACCTCAATAAGGTCCTACC  
CTACTACAGCTCCTACTACTGGATTGGGATCCGAAAGAACAATAAGACATGGACATGGGT  
GGGAACCAAAAAGGCTCTCACCAACGAGGCTGAGAAGTGGGCTGATAATGAACCTAAC  
Sequence 188  
TTTGAANCCCACTTNCCGCGGTGGCGGCCGCCCGGCCAGGTACTTTTTTTTTTTTTTTT  
TT  
TTTTGTAACACAGGTGTCAGATGCATCACAAAAGCAGAAGTGCCCTTTCAGCTCTTCTC  
TGTGCCATTCTTGTCAATTTTCATGCTGCCTACAGCAACAGCATAATACTGCAACAGCC  
ATGATGTCACCTCGAAGTGCTCTGTGATTGACAGAGAGGGACAGTCGTAGTCAGAGGTGGC  
TCCTCAGAGAATTCAGAACTCACTCGCTGTCTCCAGGGGCTCATCCCTTGATTTGAGGG  
AGGGATGAAATATTCTCTGCATGAGAGAGCAGGGATGGGAAGTGATATAGGTATGTAAGG  
ATGGTCAAGTTACTCTAAATGTAGTTAGACAGGACAGCCAGAATACCCGAGGTCTTGGTT  
AGGTCTCTGTAAACAAGCCGTAGAGGCCAGAAATGTGGTGACAGCGAGACACATTTCTT  
AACTCTTACACTTGTGAAATGAGTAGAAGNGACATTTGGTTTGAAATCCCTCCCC  
A  
Sequence 189  
CCGCGGTGGCGGCCCGCCCGGCCAGGTACGCGGGGAAGGAAAGCAGCTGCAAACTTCCCA  
TCTGCAAGTGTGTTGTTGTCTCGGCTCCGGCCATCACTGCCACGATTACCCCTGGATGAAT  
TCCTCAGTGGAATATCAACAAGACTCAGCCACCTGCACCCAGGTGATTAAGGCTTT  
ATTGCTCACACAAAGCCTGTTTGGTGGTCTCTTACATGGACGCGCGGACATTTGGTGC  
CCTGACTTGATCAGGGGACCTCCCTTGGGAGATCAATCCCCTGTCTCCTGCTCTTTGC  
TCCGTGAGAAAGATCCACCTACGACCTCTGGTCTCAGACCAACCAGCCCAAGGAACATC  
TCACCAATTTTAAATCAGGAATATTCTGTGAAAAAGACTAAGATATCAAGAGAAATTAT  
T  
AGTGCACATTATTAGAAGAGAGCTTCAGATGAAAATAAAGATCAAGAAAAAGACTCTTGC  
TTTGAGAAAGACACAAAGAAATCACATCATTCTTATTGGGATTACTGGGCTAGCCATATG  
CCAGAAAAATGAAACTGGTCCCTTCTTACACCATATACCAAAGCNGCCCANGATGGNTT  
ACTTNAATGTNAAANCCAAACT  
Sequence 190  
CGGCCGCCGGGCAGGTACCATCGCCGTCCCATTGCTCACAGGGACTGGGAAGGCGATGCC  
TGGCGGGAGCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAGATTAGGCCCTTGCTC  
AGGAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAAACT  
TTGCAATGCCCCGAAGACTTAACCTCCGATGAGGTTGTGGAAGTAGAAAATCAAGCTGTA  
CCCTGATGCTACAGACGAGGACATCACCTCACACATGGAAGCGAGGAGTTGAATGGTGC  
ATACAAGGCCATCCCCGTTGCCAGGACCTGAACGCGCCTTCTGATTGGGACAGCCGTGG  
GAAGGACAGTTATGAAACGAGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCACAA  
GCAGTCCAGATTATATAAGCGGAAAGCCATGATGAGAGCAATGAGCATTCCCCATGTGAT  
TGATAGTCAGGAACTTTCC  
Sequence 191  
CGCCGGGCAGGTACTCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTC  
CCAGGGTTACCCCTCCTGTAAGTCTTCTGCTTAGTGTTTCAAGATTGGGGGATGCTGGGACT  
GGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATGCCTGTTGGGTTGCCTATGGA

Table I

TCATTCCCTGCTGGGCTCACTCACCGGCTTCGTATAAGGTCCTTTTGGAGGTTTATTA  
TT  
TCCTTGTCATATACTTGATGCTCTTCATTGGCTTGTCTGGGACCTGCCTTAGGTTCT  
CC  
GAGGCATAAAAGGGCCGGACAGCCCCGAGTTGGGGGAACTCTGAAGCTTCTTGGTGGCT  
GGAACCTTGGTCATCTTAAAAATCCTTCAGGTTTTAGCCTGTGCCCCCAAGACAAGGATT  
TTCCAGAATCTTCTACTTCAAGTAGTTACTGGTATGAAGAAGTTTCGGCA

Sequence 192

CTCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTC  
T  
GGCTTGAAATACAGCTGAAATAACTGAATTTTCTACTTGAAACGTGTGTGCCTCTCCACT  
GNNGGGCCAAGGCCCTGGAAATGTAAAGGGCCAATCTTTGTTACAGAGGGGTTTATTGCA  
GTGAAGGGCGGGTCTGCAAAGACAAACAGGTCTCACAGATAGTTGCCCCCGCGTACCT

Sequence 193

NGGCGGCCGAGGTACGCGGGGGGCTGNAGTAGGCTTCGTCTTCGGNTTTTCTCTTCCTTC  
GCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGCCGGC

Sequence 194

CGGCCGCAGCGGCAGCTACAACAACCGCGTCGCTCTCCGCTCAATTTCCAAGAGCCAGCT  
TTGAAGCCAAGTGCCCCCGCGTACCT

Sequence 195

CTTCCCGCGGTGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAACAGATCG  
GCAAGTGCTCGACGCGTGCCCGAAAATGCTGCCGAAGAAAGAAATAAAAACCTGAAAC  
ATGACGAGAGTGTGTAAAGTGTGGAATGCCTTCTTAAAGTTTATAAAAGTAAATCAA  
ATACATTTTTTTTCAAAAAAAAAAAAAAAAAAAAAAGTACCT

Sequence 196

CGGTGGCGGCCGAGGTACTTTGAGCTCATAAGCTGGTATAAAATATCAAACATTTTGACT  
GTTTAAACAACTCAAGATATGTTTTGCAAAATTACAAAACATTATACAGGTGACTTAATT  
AATATCTACTCCAATTATACACAACACATCATGCTGAAGATTTAGATTTATTTGAAAACA  
CTTAGTCTAATTTATATTAGTGCAGAAAAATCACATTCAATAAACCACAATTGTAGAAG  
A

GACAGATAAGTGTGTTTGTACATTTTCACACAAATATAATTTGATATTTAATTAAGGG  
A

TGATGAATCACAATCACCATGGTCGCCGCCTGAGCGCCAACCCCTACCCCGTCGCCTCAT  
CGGATCCCCCGCGTACCTCGGCCGCTCTAGAACTAGTG

Sequence 197

NCGAGGTACCTGCCTNACAGNGCAGGGCGGTATGCCGCCAAACGCTTCCGCAAAGCTCAG  
TGTCCTATTGTGGAGCGCCTCACTAACTCCATGATGATGCA

Sequence 198

TTGCTCAGCCTTTCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGACCAAGGTGTGAA  
TGTGGGAATGAACATGGATCCATCCCATTTGGATGGAGAAGAAAGGTGGACAGCCTGTTTC  
TCTCTCATGTCAGCCTAGGGCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACCT

Sequence 199

GGACTTGCTCAGCCTTTCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGACCAAGGTG  
TGAAGTGGGAATGAACATGGATCCATCCCATTTGGATGGAGAAGAAAGGTGGACAGCCTGT  
TCGTCTCTCATGTCAGCCTAGGGCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACC  
T

Sequence 200

GANGAGAAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTAC  
GCCACAGAGTGTGAATAGTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGA  
CCTGACACAATGTGTGTCCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGAC

Table 1

GGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTC  
AGAGGAGCGTGACTGTGAGTACCT

Sequence 201

GCCGAGGTA CTGGGCAAAGAGGGTGACANGTTCAAGCTCAACAAGTCAGAACTAAAGGA  
GCTGCTGACCCGGGAGCTGCCAGCTTCTTGGGGAAAAGGACAGATGAAGCTGCTTTCCA  
NAANCTGATGAGCAACTTGGACAGCAACAGGGACAACGAAGGTGGACTTTCCAAGAAGTA  
CCTGCCCGGGCGGCCCGCTCTAGA ACTAGT

Sequence 202

TGGGGCACAGAGAGGGTTTCAGAGGATCCTTGNGAAACACTAGTTAAAAGATGACCGAGT  
GGGGAGAAGTGCGAGGAAAGAAGGAAATTAGTCTGACTGGCTTTCTGTCTGCACCATTG  
ATTCAATGGAGACTGGGCGGGAGGAAATGGAAGACTAGGGTTGGAGATGGGATGGGTGGG  
GCAAGGGATGGAAGGAAAAGGCAGACA ACTAATGCGTTCCATTTATAACAAGTAATATA  
TATCAAAGCACTTTAAAGGAGATTANAAGGACCCAATCAGGAATANATTTGGGCCAACCT  
TTANATTCTTTAGGGAAGGATTCAAAGTTCCTCCAAAACCTAATTTTGGATGGTT  
T  
TATTNACTAAAAAGCCAAAAGACCAAGTTNTGGGTACCCTGCCCCGGGGCCGGCCCCGCC  
TCTTAAGAACCTAGGTNNGGATCCCCCGGGGGCCTGCAAGGGAATTTCCGATATTCAA  
GCCTTTATCGGNTACCCGGTCCGACCCTNCGAGGGGGGGGGGCCCGGGTACCCC  
C

Sequence 203

GCGGCCGCCCGGGCAGGTACGCGGGGAAGTCTNTCCTTTCTCGTTCCCCGGCCATCTTAG  
CGGCTGCTGTTGGTTGGGGCCGTCCTCGCTCCTAAGGCAGGAAGATGGTGGCCGCAAAGA  
AGACGAAAAAGTCGCTGGAGTCGATCAACTCTAGGCTCCA ACTCGTTATGAAAAGTGGA  
AGTACC  
T

Sequence 204

CTCCCCGCGGTGGCGGCCGAAA ACTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCA  
GAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGC  
CACAGAGTGTGAATAGTGGAAAACTTCAGCATATGGAACTGAATGATCTTCGTGACC  
TGACACAATGTGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGG  
AGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAG  
AGGAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTG  
ACCTGGGAACCTGTAAAGCCAAGAAGAAGTGGAGAGCCGTGCACGCAGACTGTGA  
Sequence 205

CNCCGCGGTGGCGGCCGAAA ACTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGA  
GAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCA  
CAGAGTGTGAATAGTGGAAAACTTCAGCATATGGAACTGAATGATCTTCGTGACCTG  
ACACAATGTGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAG  
CAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAG  
GAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGAC  
CTGGGAACCTGTAAAGCCAAGAAGAAGTGGAGAGCCGTGCACGCAGACTGTGAATTTG  
CGTGA CTGTGAGTACCT

Sequence 206

TCNCCGCGGTGGCGGCCGAGGTA CTACAGTCACGCTCCTCTGAACCATCCTTGGGCTTC  
ATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCAGAGCGCTTTG  
TGA ACTTCTCCAAATAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTCAGT  
TTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATAT  
A  
ACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGAT  
C



Table 1

TGAGACAGTCTGATCAGTTTT

Sequence 207

TCCCGCGGTGGCGGCCGCGCCGGGCAGGTACATGGTTCTTCCTCAGAAAGTGGTTCTTCCT  
TAATGTGTTTCTTTTACCCCTTTTCTTCTTCTTCTTCACAGATGNGGCTTCNTCTTCTG  
CCACTTTTCTTCTTCCTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAAT

T

AACACTGTATCAGATCTCATTCTTCCTTCCAAAAACGTTTGAGTCCTAGTTTTTTCTGTCA

T

TCTCATCAACTACCCAATGTTTGTTTTGTTTATTTTATAATTGGGAAGGTTCTCCAAGG

C

CTACCACTAACTTTAACGAATGATATAGATAGAGCTCAGAGCAATCTTCTCACGATCATG  
AAGTCATGTATAAAATCAGGATTAACAAAGGTCATCTGATCTCCAATCATTATTGGG  
AAGGAAAGTCAATTATATTANGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCT  
GGGTTTAACTACCTGCTGCACCCTGAAAAATTGGTATTTACCCTT

Sequence 208

CGCGGTGGCGGCCGCGCCGGGCAGGTACATGGTTCTTCCTCAGAAAGTGGTTCTTCCTTAA  
TGTGTTTCTTTTACCCCTTTTCTTCTTCTTCTTCACAGATGTTTCTTCTTCTTGCCA  
CTTTTCTTCTTCCTCTTCTTCAACTGAATAGGGTNAGTGTAAGGCACAACAAATTAA

C

ACTGTATCAGATCTCATTCTTCCTTCCAAAAACGTTTGAGTCCTAGTTTTTTCTGTCACTTCT  
CATCAACTACCCAATGTTTGTTTTGTTTATTTTATAATTGGGAAGGTTCTCCAAGGCCT

A

CCACTAACTTTAACGAATGATATAGATAGAGCTCAGAGCAATCTTCTCACGATCATGAAG  
TCATGTATAAAATCAGGATTAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAG  
AAAGTCAATTATATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGGT  
TAATCTACCTGCTGCAACCCTGAAAAATTGTATTTACCCTTGGTGAAGCTCCTATCTAT

A

AAACTTAAGAATGTCTTATCTTACTGGACTGGTACTGGATTAATAAAGA

Sequence 209

CACCGCGGCGGCGGNCGAGGTACACGACATAGGCACATGTGCAAACACAAAGAAGGTGGG  
CATGCTGCTTCTTTCTNTCTGCCCCTAGNCCAGGCTCCTTTGCTTCACGNAAGATNNACA  
CTTTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCAGGAAGAAACAATTCCTCACT  
GCCTATAAACTGTAGTCCCAATGTNNGGATAGTCAANNGAACATGAGAATCANAACCAAT  
CTGGGCAAATGGGGNATGGCAAGTAATGGNGAACACGCACTAACAGGNACAGTATGCCC  
AACCT

Sequence 210

GGTGGCGGCCCCGAGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCNNTGTGAAGT  
TCTCCAAATAAGAACAAGGACACACATTGTGTGAGGTACGAAGATCATTAGTTTCCAT  
ATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCC

A

AATGTCACCCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTNCTTTGATCTGAG

A

CAAGTCTGATCAAGTTTTCGG

C

Sequence 211

GCGGTGGCGGCCCGAGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGG  
GGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAA  
CTTCTCCAAATAAGAACAAGGACACACATTGTGTGAGGTACGAAGATCATTAGTTTCC  
ATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACC

C

Table 1

CAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCCTTGATCTGA  
G

ACAAGTCTGATCAGTTTT

Sequence 212

GGNNGCGGCCGCCCGGGCAGGTACTTTTNAATTTTTTTTTTCTGNAGAGACGAGGTCT  
TTCTATGCTGTTCAAGGCTGAATTCATGGGTTTATTGGGATGGCTAANGGATGACATTG  
GCTGGTGGTCCCTTGATACCAGATAAGCCCTCAGTGTGAAGCAGCTCTTATTTTCCTT  
GT

CTTGAGATTGCTCTTGAATGGAAATTAGGCTTTTTTGAAGGTGTCGACCCTTTTTGG  
TT

CATTTCTTCAGCAGTTACTTTTTATTTTTTTTAAATGTTTTGACACACAAGTCTTNTGG  
ATAAATGAATCANTTCACCCAANCAACCCCGGATTTACTTCTCCTTTGCTCTGGNTNAA  
GT

NGNTGAACACNTGTCCCCTTTTGAAGAAATCTGGGNCGACAGCTTATGTATCCCCATTCA  
CCCACAACACCCCCAAAAAATTTATTGTCTTGGGGTCCCCAGGGGAGNTT  
ACCCTTTTTAATGGAAGAAAGGTNCCATTCTTGNGGAAAGAACCCCTNGGGAATGNTTTC  
AANAAGGAAACCTTTCCTGGGGGAAAAACAACCTTGNAAGGAAAAAATTAAAGGAAG  
GGCCCGGGGCC

Sequence 213

GCGGNGCGGCCGTTTGAGAAGCCAGCGCTCACCCACCCGGGGTCTCTGTGCATTGACCT  
TTGGGTGCTGACTTGAGAGAAAGCACAAACACGACCAGTCCCCCGCGTACCTCGNG

Sequence 214

TCCCCGCGGTGGCGGCCGAGGTACATGCCTACAGATAGTCCCAGCTACTCGGGAGGCTGA  
GGCAGGAGAATCGCTTGAACCCAAGAGCGTAAGTTGCAGTGAGCCGAGATCATGGCACT  
GCACTCCAGCCTGGGTGACAGAGAGAGACTCCATAAGAAAAAAGAAAAAAGGGGGGC  
AAAAAGAAACAGATGAAACCAATGTGAATAATTTATTTAACACAATATACCTAACATAT  
TTTTATTTCAATATCTAACCAAGTATAAAATTTACTTGTTTTGCCCTCTAGAGATAGTAA  
GCTCCTTAAGTAAACAGAAGTAATACCTGATTAATTAGAATTCCCAACCCTCATCAAGTG  
TGTGCTTATATAGAAGAAACCCAGTAAATGTTTGTTGATTGAAAGATATTAATACTCTT  
G

CTTGGATGAGAGTGAGGAAAAAGGTATTAAGTATTGGCTTT

Sequence 215

GNNGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTCAAGAATTGCCGTTGACTCTTTCT  
TTGGCTTCTGCTGGCACGGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTTTGTCA  
TG

GAAGCCGCGAGCGTAGAGGTTCCGCGTGCTCTGCCGGACTTGAGCAGGTCACTGGGTCCT  
TTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACTTCTGCC  
CC

GGTTGTTACAGGCTGTCTGGTACGAGATCTCCGACCAGTCTGGGGGCGCTGGCGGCCTG  
CGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGAGGATGCA  
ACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTTTGAAGTGTGTTTGTGAG  
AGCAAGGGAAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCATGGAGTG  
GAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAAGC

Sequence 216

CCGCGGNGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTCAAGAATTGCCGTTGACTC  
TTTCTTTGGCTTCTGCTGGCACGGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTT  
TG

TCATGGAAGCCGCGAGCGTAGAGGTTCCGCGTGCTCTGCCGGACTGTGAGCAGGTCACTG  
GGTCCTTTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACT  
TC

TGCCCCGGTTGTTACAGGCTGTCTGGTACCGAGATCTCCGACCAGTCTGGGGGCGCTGG

Table 1

CGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGA  
GGATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTTTGAAGTGTG  
TTTTGAGAGCAAGGGAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCA  
TGGAGTGGAGGCGAAAAATTACGA

Sequence 217

CCCGCGGTGGCGGCCGAGGTACTATCAAACAACATGATACAATTTAAATGTGTCATAGCA  
ACTACTAGTGGTCACCTGAAATCCATTTCCCTCCTTCACAGTAAGAGTTTTAGNTG  
AA  
TGAGTGGCCACTCATAGAGAGATTGCATTTCTGGCTTCCCTTGCCAGCCATAGGTAGCCAT  
GGGACAAAGTTCTAACCCAGGGGGGGTCCAATCTTTGGCTTCCCTGGGACACACTGGAA  
GAAGAAGAATTGTCTTGGGCCACACATAAAATACACTGGCATCAAGGATAGCTGATGAGC  
AAAAAAAAAAAAAAAAAAAAAGTACCTGCC

Sequence 218

CCCGCGGTGGCGGCCGAGGTACCATCCTGTTTACAGAGCCATTGCCTATTCCTAAATTG  
AATCCGACTGGGCGTGCCCTCCTCGGAACACAACAGTAGACCTTAATAGTGGAAACATC  
GATGTGCCTCCCAACATGACAAGCTGGGCCAGCTTTCATAATGGTGTGGCTGCTGGCCTG  
AAGATAGCTCCTGCCTCCCAGATCGACTCAGCTTGGATTGTTACAATAAGCCCCAAGCAT  
GCTGAGTTGGCCAATGAGTATGCTGGCTTCTCATGGCTCTGGGTTTGAATGGGCACCTT  
ACCAAGCTGGCGACTCTCAATATCCATGACTACTTGACCAAGGGCCATGAAATGACAAGC  
ATTGGACTGCTACTTGGTGTCTGCTGCAAACTAGGCACCATGGATATGTCTATTA  
CT  
CGGCTTCTTAGCATTACATTCTGCTCTTACCCCCAACGTCCACAGAGCTG

Sequence 219

GTTATTGGTGGTGAAGACCCGAGCAACAGTGGGCATGTCTTCTCGCGGTGCGATCGGNTT  
CTCTGGCTCCTTNTTAATTTCTCCTGGGNAACGCGCGACTCCACCGCCATCTTCTCCT  
ACGGCCTGCGAGAGGCTCCCCCGGTACCTCGGCCGCTCTAGAACTAAGTGGGATCCCCC  
GGGCT

Sequence 220

GGCGGCCGAGGTACCATGATATCATGTATCCTGCTTGGACATTTTGGGAAGGGGGACCTG  
CTGTTTGGCCAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTTCAGAGAAGATCTGG  
TAAGGTCAGCAGCACAGTGGCCATGGAAAAAGAAAACTCTACAGCATATTTCCGAGGAT  
CAAGGACAAGTCCAGAACGAGATCCTCTCATTCTTCTGTCTCGGAAAAACCCAAAACTTG  
TTGATGCAGAATACACCAAAACAGGCCCTGGAAATCTATGAAAGATACCTTAGGAAAGC  
CAGCTGCTAAGGATGTCCATCTTGTGGATCACTGCAAATACAAGTATCTGTTAATTTT  
C  
GAGGCGTAGCTGCAAGTTTCCGGTTTAAACACCTCTTCCTGTGTGGCTCACTTGTTTT  
CC

ATGTTGGTGATGAGTGGCTAGAATCTTCTATCCACAGCTGAAGCCATGGGTTCACTATA  
TCCAGTCAAAACAGATCTCTCAATGTCCAAGAGCTGNTACAATTTGTAA

Sequence 221

GCNNGGTACAGCAACAAGAATCAGATGCTCTTTAGAGATCCTCCATTTCACTACTCTAACA  
TTCTTCAATGTGGTTCCAGCCACGCATAGTCATATAGATACTACATATNCAAAGATAAC  
T  
TACTGAAGCTTGTTACAGAACCAAGCTTTCTCCTGGATAAGCTCTTCTNTCCCTAC  
CC  
CGCACTTCTTGGGNAAGGTATTACCCCAAAATGCTCTTCAGNGGATTTAAAATAACAAT  
TTTTTAAAAANANGGACACTTAACACTCACAAAAAATGGGGGAAATTTTGCTCGGGCCA  
TTGGACNGCGGAAACCAATTACCGGGTTTAACTTCCAAGNATGGCTTGTCATTTCAAAA  
ACCTGGTATTGGGGGTCCCGTTCGGAAAAAANANATAGGATATTAACCCATNTTTTTCT  
CATAAGGACCAAGCTATTCTACNTTTAATCAACCCAAATTTCTGGGGGGAAAGGNCC

Table 1

TTTCTTCTTATTTTAGGTCTTCGGGGATAGGTCTTNTANTCCCAATAAATAATTGGGGT  
T  
AGGTATTCAATCCATAATCCTCCCAGGACCCTGGGTTTTCCCTNGGAAGAAACAAGGGAA  
GAGGTCNTTGCCTGGTATCCTCNAAAAGGTTGGAAACCAAGCTTGGCNACTTTATCTTCT  
TAAACTTTCTTTTGGGAAGGAACCCCAGGTTTCAAGATATTTTTTTTGGGGAA  
Sequence 222  
ATGGCCGGCCTGCGGAACGAAAGTGAACAGGAGCCGCTCTTAGGCGACACACCTGGAAGC  
AGAGAATGGGACATTTTAGAGACTGAAGAGCATTATAAGAGCCGATGGAGATCTATTAGG  
ATTTTATATCTTACTATGTTTCTCANCAGATGTAGGGTTTTCTGTAGATGATGATGTCC  
A  
TATGGCCATATCTCCAAAAGANATGAATCCGACAGCNGATACAAAGTTTTTTGGGCTGGG  
TTTATTGCNTCATATAGNNCTTTGGCCCAAATGGNANGCTTACCCTATATNTTGGGT  
TT  
ATGGNCTAAATTATTANGACCCANAGGA :AAGGAGCCTCNTTAATTGGTCTCCCATCTT  
GATTTTTCCCGTGGNAAGCACACCTGCCCTCTATGCATATCTTCCACCATCCCCAAGCT  
TTCTCATAAANTAAAATAACCTACCAATGGCCTGGGTTGCNTCCGTNGGGAATTTGNNT  
GGGGAAATTTGGGAAGCCANGTTTTTTTCAAGACCTTNGGNNTTACAATTCCCTTTGGG  
AGAAA  
Sequence 223  
GGGCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGG  
TCAGCCCATTATCTTTAATCCTGACTTTTTTGTGGAGAACTCCGACATGAGAAACCT  
GA  
GATTTTCACTGAGTTGGTGGTCAGCAATATCACAAAGGCTCATCGATTTACCTGGAAGTGA  
GTTGGCTCANCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATC  
AGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTC  
CCCCTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTACACAAAAA  
CTTGCGAGTAGAGGGTTTGTAGAGTACCT  
Sequence 224  
CCGCCCCGGGCAGGTACTCCCTGATAAAGGGGAATTTCCATGCCGTCTACAGGGATGACCT  
GAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTG  
GTTCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTTCTCATTCT  
GGTGATAAAGATGGGCGTGGCAGCCCACAAAAAAGCCATGAAGAAAGCCACAAAGAGTA  
GCTGAGTTACTGGGCCAGAGGCTGGGCCCTGGACATGTACAGACTCTCATTTTATGAT  
GTATCCTACTGCATCAGGACATTTGTGTCAATGTGAGGTGACGAGGGGAAATGAAAGTGA  
TGAGACGATGAGAGGAGTGAATACCAAGGACGCCATACTAGGAAACCCAGGTCTATTTG  
TTATCAGAGTAAGGATCAAGCCAGATAGCCTGTTATGTAATTTCTCCGATAAAAGATT  
T  
GAAAGCAGGTGCTGTGGGCATCTGTATGGGGGAATCGCACTCATAGAATTATTTTCATT  
GTAAATATTTGGTATCAGGCCAGCAAGGGAAA  
Sequence 225  
CTCCCCGCGGTGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACGG  
CTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCCAGGTCAAGAGCTTACCCATAATTA  
A  
GACCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCAT  
GGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTG  
AACTTCTCCAAATAAGAACAAGGACACACATTGTGTCAGGTACGAAGATCATTCAGTTT  
CCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAA  
C  
CCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTGTGCCATCTTTTCTTGATCT  
G  
AGACAGTCTGATCAGTTTT

Table 1

## Sequence 226

TTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACGCGGGATGGATAGCCGCTTGCA  
GGAGATCCGGGAGCGGCAGAAAGTTACGGCGACAGCTCCTCGCGCAGCAGTTGGGAGCTGA  
AAGTGCCGACAGCATTGGTGCCGTGTTAAATAGCAAAGATGAGCAGAGAGAAATTGCTGA  
AACAAGAGAAACTTGCAGGGCTTCCTATGATACCTCTGCTCCAAATGCAAAACGTAAGTA  
TCTGGATGAAGGAGAGACAGATGAGGACAAAATGGAAGAATATAAGGATGAAGTAGAAAT  
GCAACAGGATGAAGCTTATCATCAATTCATTGTATAAAAATAAGAGATTTTCCTGAGAG  
AACTGATTTCAAATGCTTCTGATGCTTTAGATAAGATAAGGCTAATATCACTGACTGAT  
G  
AAAAT

## Sequence 227

CNCCGCGGTGGCGGCCGCCCGGCCAGGTACGCAAAGTGATTGAGAGAACGCTGGGGCTCA  
CAGGCGCTGTAGCAAACGTGCAACTCTTGAGGAACACTTAAGACGCCACCATTCAGAACAA  
CAAAAAGCTACAGAAGGTCCAGGCTACTGAAAAGCATCAAGACCAAGCTGTTACTAGCTC  
TGCGCATCACAGAGGGGGGCATGGTGTCCACATGGGAAATTGTTAAACAGAAATCAGA  
GGAGCCATCGGTGTCAATACCCTTCCTACAACTGCATTATTAAGAAGTTCAGGGAGTCT  
TGGGCACAGACCAAGCCAGGAGATGGATAAAATGTTAAAAAATCAAGCAACTTCTGCTAC  
TTCTGAAAAGGATAATGATGATGACCAAAGTGACAAGGGTACCTCGGCCGCTCTAGAACT  
AGTG

## Sequence 228

GAGCTCCCTCCTACCCCCTAGCTGAGTAGGCCAGGTTTTGGTGCAAAATCTCCACATTG  
GCAAAGTTCTGTCATATGCTGCGCAGTATGNGCCTTGAATAAAAATCCTGAAGATTAGAT  
GGTTCAGGCTGCATCATCCCAAAGCAAAGAGCACCTCTTTGAAGCTCACCTGCCCGGGCG  
GCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCAGTANGNAGCTTTAAACAGTTACATAT

## Sequence 229

TGGCGGCCGAGGTACTACAGGATGATGGCTTTCTCTCCTCTGGGTACAGGCANGGGCC  
ATGGAGTTGGGGAGAGAATGTCTAAACCTCTGGGGGTATGAACGGGTAGATGAAATTATT  
TGGGTGAAGACAAATCAACTGCAACGCATCATTCGGACAGGCCGTACCTGCCCGGGCGGT  
CGAGCGGCCGCCCGGCCAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTGGGAACNGNTACATTGNTCAGTTTTTACTTGNAAAAAGT  
NTTATAGAANAGTTTTATTGGAATGTTATTTTATTAAGCCNTTTTCATGGGTATTTTTT  
TTTAAAGTTTAAAAAGTTTTTACAACANGCTGGGNGGGGGGNTTNCACCTGGCATCCCA  
GCACTTTTGGAGGNCCCAGCGGGCANAAACCTGANGGCGGGGAGGTTTAAAAAANCNACC  
CTGNCCANATTGGNAAACCCNTNTTTTTTCTTAAATTCCTCAAATTAATTC  
C

## Sequence 230

GGCGGCCGCCCGGCCAGGTACGCGGGGGAGTCAGACCCAGTCAGGACACAGCATGG

## Sequence 231

CCACCGCGGTGGCGGNCGAGGTACGACGTTTCCATCAGCTTGCTGTTTCATTCCCTGAT  
GTTACGAGCAATATGACCATCTTCTGTATTCTGGAACTGACAAGACGCGGCTTTTATCT  
TCACCTTTCTCTATAGAGCTTGAGGACCCTCAGCCTCCCCAGACCACATTCCCTGGATT  
ACAGCTGTACCTGCCCGGGCGGCCGCTCTAGAAGTGGATCCCCCGGGCTTGACAGGT  
AATNTCGGATATCAAGCCTTATNCGATACCCGTCGACCCTTCGGAGGGGGGNGGGCCCCCG  
GGTACCCAGCCTTNTTGTTCCTTTTGGTGGAGGGGGTTAAATTTGCCGCCGNT  
TGNGCGGTAAATCAATGGGTTTATTAGGCTTGCTTCCCCTGTGGTGNAAAATNGTTA  
ATCNCGGCTCACCAANTTTCCACCACAAACCAATANCNAGNCCCAGGGGGAGGCCATTA  
AAAAGGTNGTAAAAAGCCCTTGGGGGGTTGGCCCTAATGAAGTGGAGCCTAAACTTCACA  
ATTAATTTGCCGTTTGGCGCTTCACTTGCCCCGCTTTTTTCCAAGTCCGGGGA

Table 1

## Sequence 232

CGGTGGCGGCCCGCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTNCCTTTNA  
A  
AAAAAAAAAANGATATTTTAATATATTCAGATCCNCAATATGAAATAAACTAAGNNGA  
GCTGGTATTCATTTACACATAATTATCTTATACCGTTNGGAATAAGAATTTGGGGCNC  
GT  
TAGCAAACCAAAGGCTCAAAAAGACGTCGNGATATTTAGTTCTTGTCTCCCTCTACAAA  
NGGGAAGCACTNTTTATCCGGCATTCTAGGGGNGTTCTATTTTCAA

## Sequence 233

CGGTGGCGGCCGNC CGGGCAGGACGCGGGGGCCAGTTCTCTTCGGGGACTAACTGCAACG  
GAGAGACTCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGT  
T  
AACCCTATAAACGCCAACCAATCATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGT  
CGGGGACCAAGGCCCAAATGTCTGTGCCCTTCAACANGATTTTGGGCACCAAAAAGAAAT  
ACTTCAGCCACTTGTAAGAACTGGGTATAAANAAGTCCATCTGTGGGACAGNAAAAAC  
CGACTGTGGNTATTATGGAANTGTTGCCCTGGGTTATTATGGAGGAATNGGGAAAGGGA  
AATGGAAGGGGCTGCCAAGNCANTTTTTTAGCCCATTTGACCCANTGGTTTTATTGGG  
CACCTTCTGGGGCCATCCGGTNGGGGGAGGCNACCCCAACAAACCGGNAAGCCGCCTTA  
TTTCCTTGGACCGNCCCTNAAANAACCTTGAAGGGGGAAGGGGNGGAATCCGGAGGGGG  
AAAAGGGGGGA

## Sequence 234

CGCGGAGGCGGCCCGCCGGGCAGGTACAGTATAGGTTGGTTTTGCCTGTTTTGACGCTTT  
ATATATACGTAGACACACATACACATGTATATACACACACACATTTTACATATATATA  
TGAACTGTATAATGTGTTGCTTCAGTGTCTGGCTGCTTTTACTCAACATTGTGAAAT  
T  
AATTCCTGTTATCGGNATATGGGTATCNAAATTTGNTTTGCCCTAGTTTTTGCCTTCTC  
A  
TTGCTTTCTGAATTGGGGGCAGCTTTGCCCTCAAGGGGAAATTTAGCAATGTCTGGAGA  
CATTTTTTTTATTTTCATAATTTNGGGAGGGGACATGGGGGGAGGTTTGGTGGCTACAGG  
AACCTTAATTAAGGTTGAGGGACAGGGGTTAGGTGCTTGAACGGTTNCCACANGTAACA  
CTTCGGGCNCGCTTNTAAGAAACCTAGGTGGGATTCCCCCNGGGTCTGGCNANGGAAA  
ATCCGANTATTNCNAAGCCTTANTCGANTACCCCGNCGACCTTNGANNGGGGGGGGG

## Sequence 235

CGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTATAATAATTTTGT  
CATTTTTGTAGAGACAAGGTCTCCCATGTTGCCAGGCTGGTCTCAAACCTCCTAGGCTCA  
ACTGATCCTCTACCTCCACCTNTGCCTCCCAATTATCCCAATTGAGAGATGAAAATTC  
TGACAAGCTCTCAAACGTAACTGACTTGCCCATAAATGACAGTTCCAAAGTTATAAGGG  
CCTAGNAACNTTGAATCCAGGTNCTGTTAGNAAATTCTAGGGTTTGAGAAATCCCATT  
TCTNTCCACTTCCCGCGGTACCCTGCCCCCGGGGCCGGCCGCCTTCTAGGAACNTAGGT  
GGGATCCCCCCCCGGGGCTTGAGGGAATTCCGATATTCAAGCCTTATTCGATAACCCGT  
CCGACCCCTCGAAGGGGGGGGGGCCCGGGTACCCAAGCTTTTTTGTTCCTTTTAGTGG  
AGGGGGTTTAAAT

## Sequence 236

GCGGCCGNC CGGGCAGGNACCTACGCCACAGACAGCCAGAGGGAAAGCGACCCAGACAGC  
AGCCCCCTCTCGACAGGCCACCCCTGCAGCTCAGGCACCAAGAAAACAGCCGATACTGGC  
AGCCATTGCAGCTCCAACTGCANNAGGCAAGGCCAATTTTAACTTTTCAATTTACAGTC  
GATTTTGAAGAGCTTTCTACATATCCGGTTATGTAAANTTCATATATGTATTTTTGGAA  
ATCAGTTCCTTATANAACCAGCCTCCGATTCAAGTCTTTAGGCTAAAATTTTATAGGTCC  
T

Table 1

AAGGGTAGGTATGGTTAACAATTTTGGAACTTTTTGGTCCTTAAAGAAAAAGGTTGGAC  
TTGTTTCAANATANTTTCTNTCTTACCTNGTGAAAAGGAAAATCNTTACTTTTTTCCTAA  
TAAAAAGGAATTCCTGTTACCTTCGGGCTCCGCTTCTTAGGAACTTAGGTGGGGATC  
NCCCCCGGGGTCTGNGAAGGNAATTTTGAATATTCAAAGGCTTTTATTGAATAC  
CCCGGCTCGGAACCTCGGNAGGGGGGGGGGGCCCCGGGGTACCCCCAAGCTTTTTTNGT

## Sequence 237

GCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTATCTTTAATCCT  
G  
ACTTTTTGTGGAGAACTCCGACATGAGAACTGAGATTTTCACTGAGTTGGTGGTCA  
GCAATATCACAAGGCTCATCGATTTACCTGGAAGTGAAGTTGGCTCAGCTGATGGGGGAAG  
TGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGATTCCTCCGGTCTCTCATGT  
CTCTCAAGCGAAAGGAAAAAGGAGTGATTTTGGGTCCCCACTGACGGAGGAAGGCATTG  
CCCAGATATACCAACTGATTGAGTATCTACAAAAAACTTGCAGTAGAGGGTTTGTTTA  
GAGTACCT

## Sequence 238

CCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAGAGAGGGGTGCAAGGA  
TCCTGATTTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGGNAGTATGAGCTTCAA  
CCCCAGCACACCAGGGGCCAGTTATGGCCTGGAAGGCAAGAGCCCAGAAATCCCAATT  
GAGAATTGTGTAGTGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCT  
TGGCCGGAAGTGTTCATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTGAGAA  
ACGCAGCAGCTCATGGAAGGAAACAGAAGTGTCCGTAGTTGACACACCAGGCATTTTCG  
ACACAGAGGTGCCCAATGC

## Sequence 239

CCGCGGTGGCGGCCGAGGTACCAGTTAAGTGAACAGCTCGTCTAGGTCTGCTTTTGTAAAC  
ACCCAAATACAATTAGCACTTCTCTGCTGGTATCCCTGGGCGCTTAATTATCTAG  
AG  
GCCAGGAGGCAAAGCCTAGCACGTAACAAAGTATGTGCTTTGTAAGTCTGATTAATTCA  
GTTTCTTAAGTGGCAGAGCAGGTATCATGATCTAATTCACACTATTAATACACTG  
T  
CTTGCTGAAGAGTCTGACCCTGCCAGGAACCCCCGTTATGGCCTAGCCCCAGNNGGGAAG  
NCAGTAAACCTGCCAANAGCCAGGAGAAAAAGGGGGGCCAGTCTTAAGAATGAAGGCC  
TAGGTGCTTGGCCTGGAGCTCCAGTTTTAGGGTCTGGTACTGTTTCTGGTTTCCAAC  
TTATTAAATCCAGGGGATGGACCTGGTTACCTCAGATTTAGGTTGCCTTATGGTAGGA  
AAATAGGAATGCCACAGGCCAAAAAACATTAATTTGGGGGGGATGGACTTGGGCAGNC  
ACCTTTTTTTTTCCCTTTTC  
TT

## Sequence 240

GNNGNGGGCCGGCCGAGGTACTTTTTTTTTNTTTTTTTGGTATGACTATAGATGGC  
TA  
GTGNGTCTTTTATTAGCTATCANGTTCATTTAACAGACAAAAAATTCAAGTTCAATG  
N  
NNGGNCATTAAATACGGAAGAATTAACAATAAGTTCATTAATCAATCTTTCANCTGTT  
C  
CTATTTTATCACAATNACTTTTCTANAAATTGGAANAAGGATNCATGGGAAGGGGACAA  
GTCTTGGAAAAACGCAACCGTAATTGTGTTCTTTCAAATTCATAAAAGACACTTCAGG  
NNCAAAAAATAAATAACAAGGNAAGGGCCGCNTCATTACCTNTTAGTTTNGGGGNGTN  
GGAAATTGAATCATGGCCAAGTGCTAAGNGCNTTTTTGCTGNTNAGTTAACCCNCCGTG  
CCCGCGTCNTAGGAAACCTATGNTGNGGATCCCCCGGGGCTTGCCANGNGGAAATTT  
CGAATAATCCAAANGCCTTATCCGGAATACCCCGTCCGGACCCNCCGAAGGGGGGGGGG  
GGG

Table 1

## Sequence 241

GCGGTGGCGGCCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAACAAGATCGGCAA  
GTGCTCGACGCGTGGCCGAAAATGCTGCCGAAGAAAGAAATAAAAACCTTGAAACATGAC  
GAGAGTGTGTAAAGTGTGGAATGCCCTTCTTAAAGTTTATAAAAGTAAATCAAATTAC  
ATTTTTTTTCCAAAAAAAAAAAAAAAAAGTACCT

## Sequence 242

TGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACAT  
TTGGGGTTATATTGAAGAAGGTTACGCNACAGAGTGTGAATAGTGGAAAAACCTTCAGCA  
TATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTCTTATTGGA  
G  
AAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCA  
ACCCCATGAAGCCCAAGGATGGTTCAGAGGAGCGTGACTGTGAGTACCT

## Sequence 243

GTACGCGGGGTGCTGGGATTACAGGCACGAGCCAGTGCGCCAGCTGCCTCTGTTTCTTT  
TATTAAGCTGTTCTGGACTGTGGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGCC  
ACACACTTTTTGAACTGGCCCGGTGAGGGGGACATAACCATTTNCTGTGCCACCCCATC  
AATCCCCACCTATTCTGAGTGTAGGCTCCTCCCCTGCTTGAGTAATGGCCACAGATCTTG  
GCTCGGCACTCCTAAGCTGCATGTTGAATTCCTGGGACAACAAGACTGGCTTGTTGTTCC  
ATTCTCCAGATCCTTGGGTTGGCTTCTGGGTGCACTAGGAGATCTGAAATGCTCTCAGGC  
CACCAGGAAAGTACTGGAAGTAAAGTCTGACTCTAAAGAAGATGAAATCTAGTAATTAA  
TGAAGTAATAAATTCTTCCAAAGGGAAAAAACGCAAGGNAGAACATCAAACAGCTTGTGC  
TTGTAGTTCTCAATGCACGCAAGGGTCTGAAAAGTGTNCTCAGAAGACTCTNNAAGAGAC  
GAAACGAACCTGTGCCTGTAACTTTTGAGGNGAAAAGAACAATAATGGCTCTTAGGNGG  
TCCCGAAAAAAN

## Sequence 244

TCCACCCACCTCGGCCCTCCAGTGTGCTGGGATTACAGGCATGAGCCACGGCACCCGGCC  
CTGGTTTGCTTTCTGAACCATGTCAATACAGTACCACCACAGTTGCTATCTCTTGAAC  
AT  
CTTTCATTAAACATCACCGTCTAGTTTGAGAATACTTTTAAGCCTGCTGGCCTCCTTT  
G  
GGGCATTCTTTTTCTCTTTTCAGCACGCATCTTTCTTTTCCACTTACTCCGTAAGCTT  
T  
TAGCCATGTTTTACCTTGAGGGCCGAAGTTAACTTCAGCGGGAGTGAACGACAGGGGTGG  
GCTCCACTTTATCCAGTGCATCGGAAGCCGGAGGGCCCCCACCAGGCAAGGGGA  
ACCTC

## Sequence 245

CCCCGCGGTGGCGGCCCGCCGGGCAGGTACAATTGCTTGAGTGAGTTCATGGTCCGTAGG  
AGGATGACCACTAGCCACACCTTCCACTGTTTCTACAGTCCTGGNCAGCAAGTTTGGA  
GTAAAGGCTTCAAAATCCTGCAGCACACATGCCGAAGGTATTGCCAGGATCTTGTGG  
GTCTCGTTGTAGTAGCAGTAGCGAATGTTTGTGGCTGCTATGAAGAGTTCAAAGGGGTG  
TCCTGCTTTATGTTCACTGTTCCATTCTTTATTTTCTTCTGCAGCTGTCGCA  
T

## Sequence 246

GCGGCCGTGGGGATCAGCGTAGGTGAGCTGNGGCCCTTTTGGAGGTGCTGCAGCCATAGC  
TACGTGCGTTCGCTACCGAGGATTGAGCGTCTCCACCCATCTTCTGCGCNGNCACCATCT  
ACATAATGAATCCAGTATGAAGCAGCAACAAGAAGAAATCAAAGAAGAATATAAGAA  
ATAGTTCTTGTCCAAAGGAAGGAACTCTTGAAGGATTGAATTCAGCCCTTCTTGCAT  
CTTGGGATCTCTTGGTTGGGAAACGGAAGGAAANAATNGGAAGCCTTGTCCCGCAAGNG  
CTTTGTCCANANAAAGGGGAAACCATTTCTGGGGAATGGACCCACCTTTAAACCATCTAC  
CAAACCTTCCAAGCCCCCTTGGGGGGTNTATTTGGTCCCCAACACAAAAAATAGAAGTA



Table 1

TAAAGAAATANAGGTTANCCTTCGGGCCCGCTTCTTANGGAACCTAGNNGGGGAATCCCC  
CCGGGGCCCTTGCCAGGGGAAATTCNGGAATNTTCAAAGCCTTTATCGGAATACCCCGTC  
CGGACCCCTTCGGAGGGGGGGGGGGGCCCGG

Sequence 247

GGCTTGCTTGACTAGATGAGCTGCTATAGTAGCCAATCCTGTTAGACTTGGACCATTGTT  
TGTCTGAAGAANGGAATCTGTCGCTCGCCCTGAGCACTGTATTTATCCCTTACTCAA  
GNCCCAAGGGACTTCTCCAAGTAGCCGACAACTCTGCCGGGCCGCCGCCATCTCCGG  
GCCCCGCTCTAGAACTAAGTTGGGGATCCCCCGGGGGCTTGCAAGGGGAAATTTCCGAA  
TATCAAAGCTTATCAGAATAACCCGTCCGAACCTTCGGAAGGGGGGGGGGGGCNCCGG  
GGTACCCCAAGCTTTTTTGTNTCCCTTTTAAGTGAAGGGGGTTAAATTNGCCGCCGC  
NTTGGGCGGTAAANTCANTGGGTCAATTAGGCTTGTTTTCCCTGGTNGTCGGAATAATTTG  
NNTTATTCGGCTCACCAAATTCNCACAACAATAACCGAAGCCCGGGGGGAGGCCA  
TTAAAAAGGTTGGTAAAAAGNCNCTTGGGGGGTGGCNCTAAATGGGAAGTNGAGCCTAA  
CTTCACAATTAAATTTGCCGTTTGCCGCTTCACTGGNCCCGCTTTTCCAAGT

Sequence 248

CCNCTCCCGCGGTGGCGGCCGAGGTACTTNTTTTTTTTTTTTTTTTTTTCTTTTTT  
TTTTTTTTTTTTTTTTTNCAGAGACNAGGAATTAATTAGGGNTGTAACAAATGGTTA  
ATTNTAGNAAGAAAAACCAAATTGAATAATTTCTAACTCACTTGGCAGGGGGGNCCTCG  
CANCNATAATGAACATCACATAATGAAGTTNCTCCTTTCCANATCTATAAACAGGCTCAT  
GTAATACTGATNCTCAGTAAANGNNCATAATCCAAATNTNTAACAANGGGGCT  
TGCTATAAAATCTCTTACATTTTAANACTTACTCTTAANAAATCATCTATTCTCCCTC

Sequence 249

AGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAAGCTGGAAGAAATAAGATTGGG  
TGACATTTGGGGTTATATTGAAGAAGGTTACGCCACGGAGTGTAATAGTGGAAAAACCT  
TCAGCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTT  
AT  
TTGGAGAAGTTCACAAAGCCGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTC  
AATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCAT  
CCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAG  
AAGAAATGGAGAGCCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGAGTACCT

Sequence 250

CGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCA  
GCCCATTATCTTTAATCCGGACTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGAT  
TTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGTGAAGT  
GGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGG  
ATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTGGGTCCCC  
ACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTACACAAAAACTT  
GCGAGTAGAGGGTTTGTGTAGAGTACCT

Sequence 251

TGGCGGCCGAGGTACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGCG  
TCTACCCGGGAATCCGGGGTCCCTGACCGATTCACTGGCAGCAGGG

Sequence 252

AGGTACATTTTACTACGCACCCCTTACGCATTCTTTTTCTCACCTCTGTGTGTGTGTG  
C  
GTGCACATGCACACACACAAATGGGTGAAACAATTCTCACCATACCAAGAGCCACCGCGC  
CCTGCCGAGAATTTGCATTTCTAACAAGTTCCAGGTGATGCTGACACTGCTGGCTCATG  
GAACCACTGCTGTAGTATTTTCAAATTATCCTGATTCTAAGAACCACCTATGACCTGT  
G  
CTGTTTTTCTGTGGTACTGGCTCATGTACATAAATTCTTTAGGATTCAAACATGT  
T

Table 1

TGTGATATTACTCAGTATTTACATCTTGCTTTTACTGCAGCATGATGGAAAAATTAACC  
A  
CAGGTATATCATAACAAAAAGAACATGAGTTACCATTTTTCACAAAGTTCAGATATATT  
T  
AAATTAGCCTATTTAATCTTTTTTTTGGGT  
T  
Sequence 253  
GGGNGGCCGGGCCCCGCCGNCAGGGTACTTTTTTTTTTTTTTTTTTCTACCAGTAG  
CC  
TATTTAGATTTATTAAAAACACATAGGTAACCGAGTCANAGCTTTGGCTAGGAATGAN  
TTGGAAAAGAACTGAAGGCATAATTCACAGGACATTACAGTTAGTGTGCTAGAAGACA  
NGAGAGGGAAGCAGGGAAGTGTTTTAAGAAAGCATTTCGCGGCCGGGACAAATGGGA  
AAGGGCCCCGGGCTTTCATCGAAATTCCTTGTTTTGCCTTGGATCCCACAATCTTGCTTG  
GGAAAAGGGTGGGGACAAGAAGGAAGNGCCCAAGGGATGGGGAGCCACCCGATCCCAAGA  
CCAAGGAAGTANTTTTGGCGCTCCCGGGANGGGGGGGCAAATTGGATCCTTTGGAATCCT  
TCAATGGGTGGCCTNNGGGGTAGCTTAAGGGGGCCCGGTGGAATCCTCTTTCTNGCATT  
TCCGGGGGCCGGCNAATNGCCCAAGGGGGGTACCCTTCGGGCCCGCTTCTAAGAAACC  
TAGGGNNGGGGATTCCCCCGGGGCTTGCANNGGAAATTCGGAATATCAAAAGCCTTAA  
TCGGATACCCGGCGNACCTTCGAGGGGGGGGGGGGGCCCCCGGTACCCAAGCTTTTGGG  
T  
Sequence 254  
CTCACCGCGGTGGCGGNCGAGGTACTCATGGNTGCTGNAAATCATGGCACGCCCGTTCTG  
CAGGGNTNTGCTTAGCCAGGCTCCTNTGAGATCTGGCTATTNTGNCTTGTGGATNNTCAG  
TCCCCGNGTACCTGCCCCGGG  
Sequence 255  
CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAGAGGGGGGTGCAA  
AGATCCTGATTTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGGCAGTATGAGCTT  
CAACCCAGCACACACAGGGGCCAGTTATGGGCCTGGAAGGCAAGAGCCAGAAATTCCTCA  
ATTGAGAATTGTGTTAGTGGGTAAAACCGAGCAGGAAAAAGTGCAACAGGAAACAGCAT  
CCTTGCCCGGAAAGTGTTCATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTGA  
GAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCGTAGTTGACACACCAGGCATTTT  
Sequence 256  
ANCGCACACCACACNTCTGATTAATNTTTTGNATTTAAANNTTTAGGTGGGGCTNCACC  
ATGTTGCCAGACTGGTNTTGAACCTCTGAGCTTAAGCAATCCACCTGCCTCGGCCTCCC  
AAAGNGTTGGGATCACAGGCGTGAGCCACCGCATCCGGCCTCATGTTCTTTTTCATTA  
GAGAGAAATCAACTATTACAGGACCGGCCCCCACCTTCTCAGGAGTCATTTCTGTTCCG  
CACAGGCCTGCTGAACCTGGGTGCTTTATATAGGGNANAGGGGGCCTCATTTTTNGTCCC  
CTGNCCCNCAAGCNNTANGGGGCAAAAANAAACCATNCCAANAATTTGGNAAAGGNNNT  
TTTTTTTTTTNAAATNNGGNNNGGGGGGGGGCCCCCCTCNCTTGNGGTGCGGNGGNTT  
TNCNGGNGNNAAAAAAAAAAAAAAAAAAAA  
Sequence 257  
AGCTCCCCGCGGTGGCGGCCGAGGTACTCTGACTTGCAGGGCCCAAGACCGGCCTTGCGA  
GCGTCGTTGGCTGATGGGAGTAGAAGCCACAGAGAGTCTTCTCTTGGAGGTACAGTCAA  
TTCTGAGGTTTGGCGTCATAGACTAAACCCAGAAAAACAGAACATTGGGAAGTCTTCGGA  
ATATTCTCTATCTTCTTACCAACGAGTAAGACCGTTTTG  
Sequence 258  
GGCCACGTGACCGACGCCAACATNGCGCGCCAGTGGCGTCCACCTGNTTTTCCGCAGA  
GGTTCTCATAGAATTTTCTTCCACCACTCAATCATATCTACTNACACAAGCAGTCAAG  
C

Table 1

AGTCAACAAAGAAGAAATTTCTTTTTTCGGAGACAAAGAGATATTTACACAGTATAGTT  
TTGCCGGCTGCAGTTTCTTCAGCTCATCCGGTTCCTAAGCACATAAAGAAGCCAGACTAT  
GTGACGACAGGCATTGTACCTGCCCCGGCGGCCG

G

Sequence 259

GGTGGCGGCCGGCGGGAGGCTGACGAGAGCCCGGGAGGCGTTAGCGAAGGAAGAGAAAA  
CCGAAGACGAAGCCACTACAGCCCCGCGTACCT

Sequence 260

GGAGCATAAAGNTGTAAAGCCTGGGTGTGCCCTAATGAGGTGAGCCTAACTTCACATTTA  
ATTGCGTTGCGCTCACTTGNACCGCTTTCCAGTCGGGGNAAACCTGTCCGTGCCAGNC  
TGGNATTAAATGGAATCNGGCTCAAACGNCGCCGGGAGAGGAGGGCCGGTTTTGCCG  
GTATTGNGGCGGCTTCTTTCCGCTTTTCTTCGGCTTCAACTTGAACCTCCGCTTGC  
GC

TTCCGGGTNCGGTTTCNNGGCTTGNCGGGGCGNAGGCCGGGTAATNCAGCCTTCAACTTC  
AAAAGGGCNGGGGTAAANTAACNNGGTTTATTCCCCACCAGGAAATCAAGGGGGGAATA  
NACCGCCANGGGGAAAANGAAACCATGNTGGAGCCAAAAAAGG

Sequence 261

TGTGTTGAAAAATTGTTATCNNNCTTCACAAATCCACACAACATACCGANGCCCGGNA  
GTCATAAAGTGTAAGCCCTGGGGTGCTTAATGTAGTGAGCTAACCTCACATTAATTG  
CGTTGNGCTCATATGCCCGCTTTTCCAAGTTCGG

Sequence 262

GGGCGGCCGAGGTACCCGATAGAACATGGCATCATCACCAACTGGGACGACATGGAAAAAG  
ATCTGGCACCCTCTTTCTACAATGAGCTTCGTGTTGCCCTGAAGAGCATCCACCCTG  
CTCAGCGAGGCACCCCTGAACCCNAAGGCCAACCGGGAGAAAATGACTTCAAATTATTGT  
TTGAGACTTTTCAAATGTCCANGCCCATGTATGTGGCTTATCCAGGCCGGTCGCCTGTC  
TTCTCTTATGCCTCTGGNACGCACATCCTGGCATCTGAGCCTGGACTCTTGAGATNGGG  
TGTTCACTCCACAAATTGTTCCCCATTCTTATNGAGGGGGGCTATTGCNCTTGCCCCC  
ATGNCCNATCATTGNCNTTCTNGGATTCTGGCCTGGCCCGANGAATCTTCACTTGAATA  
CNCTTCATTGGAANNATCCNTGGACCTGGAANGCGTGGGGCCTAATTTCCCTTTCCGT  
TTACCTAACCTGGCTTGNAAGCCGNTGGAGGAATTGGTTCNCGGGGGACCAATTCAAAAG  
GGAAGAAAANCTGG

Sequence 263

CTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGCAGCCGTTTTT  
C

TTACTAGAAGCTAGGCNGAAAGAGTTGTTACTCANATTTCTTGAACCTTGAGACGTCAAAG  
GTGAGACGCCAGCCAAGGAGAAGGGATGGTCAGGGACCTGCCCG

Sequence 264

CGTGCGGATCTTCTTTTGNNGCTTCCTTCANGGGGTCAANAAAACCTTCTNNGGC  
TTTAAAGCCTTCGCTTTGGCTTCAGCTTTAGGAGGGGCAGGAGCTTCNCCTTCGANNTC  
GGCGCCATCTTGNGAAAAGCCCCGCGNACCT

Sequence 265

AGCNNCCCGCGGTGGCGNTNGCCNNGGCGANCCCGCGGGGTGGAAACCTCTTCAGCATTN  
GCTTNNNNTCAGGGGGCTAAAAAACCCANCAACCGGGACCCCAGCTTTTCAGAACTGCAG  
GGNAACAGCCATCATGAGNGAGGGCACCAAGAATTCCCTGGAGAAAATCCTTCACAGCT  
GAAATGCCATTTACCNNGAACTTATTCAAGGAAGACAGNGGCTNNTNNGGGANCGNNGGG  
ATAGAGNGCGCAACCAGGGNGAAANNNTAAACACNGAGNNAAGNNGNCGNNGGNCNN  
CGGCCGCTCTAGAACCAGGGGACCCCCGGGCCCGCAGGGAANNCCGANANCAAGCCNAA  
NCGAAACCCGGCNACNNCGAGGGGGGGGGCCCCGGACCCAGCNNNNNGGNCCCCCNAA  
GGGNGGGGNAAANGNGCCGCGNNGCGGAAANCAAGGGGCAAAGGCNNGGNCCCCNNGGGG  
NAAANGGGNANNCCGNNCACAANNCCNCACAACAACCAAGCCCGGGAGGCANAAAAGG

Table 1

GAAAAGCCCN

Sequence 266

AGGTACTTTTCTAGGTATTGCTGGGCAAGATCCTTGTTGGAGTCCTCCTCTTTTGCTG  
CC  
CCACTCAGAGGATAGGCAGAGCAGACTGGCAGACACAACAGCACAAGGAATGCAAGATGC  
ATCATTCTCACTGCCCTTACCTTCTTTGTCTACTGGGCTTCTCCCCGCGTACCTGCCC  
GG  
GCGGNCGNCTCGAGCCGCCGGGCAGGTACTACCTGNACCAACTTTTTTCATTTGGGCATCAC  
AAAGACGAGTCTTCTGATGTTCTATAAGCAATATGNTTATATGAAAGNCAGAAAGTTTAGC  
GAAAATTCGGCCTAAACAGNAATAAATGAAAATGGANTGGAAATCAAAGNNCTTAAATAG  
AACANGAAGGCNNGGCACCGGNGGNTCACGCCTNGNANNCCCAGCACT  
T

Sequence 267

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTACCTCATTTCTACCAATCATT  
TTAAGAGAATTTGGTTGTATTTCAAAGAACAAAACAACACAATTTCTGTCCTGCTGTTT  
A  
TTTTAGCGGTGGTCGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTC  
TAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCA  
AGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTC  
GTTCCAGTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGGATG  
TA  
AAGCAGGATCATAGTTTCTTGAACTCTCTGTAAGTCCAACCTGGTTTCGCGGACATAAT  
TGTCCGGATTCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 268

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTATATGAAAGTCCTCACTTTCAGA  
AGCAGAAAAGGAGTAAGTAGATGGGCATTTTCTATACCAGCTAAGGCTTTAAACATAACA  
ACGTCTACTGAATAATTTCTACTTACTTTGACTGAATAAGCCAGTGAGATCGTGACTG  
C  
AAGTGGAAGACCTTCTGGCACTGCGACCACTAAAACCTGTAACCTCCAATAATGAAGAACTT  
CACAAAGTATTGTATATAAATTGGTGTGCACTCAGCAAGCCATGGTCTTTTCTGAACCCA  
GAAGGTGTCAATGACAAAATATAACTAGAAATGATAACTGTGATGGCAGGCATCAACAG  
ACCTTTCAGAAATAGAAATGAAAGAAAAATGTGATTATTAAATTTCCAGACACTAACCCTT  
GACAGATATAAATTAACACTGTAAAGAGTTATAACTTGCTTGATAGTATTGAATTTCT  
C  
TGAGAAATTACTTCTTTCTTGACCTTATAACTTGACATTGTCAGATTTAATTTTT

Sequence 269

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATAGTGGAGGCACTGAAAGACCA  
GCAGAGGCATAAGGTTGCGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTT  
GAACCAACCTCGAGCGGCCGCCGGGCAGGTACAGATGCACAGGAGGCCATAGGGTTAG  
GCAAAGGGGAGCACAAAAGTTGAAGATGAGGCGCTGCCACCAATGCTGGGACTTCAGGCC  
AGGGGCAGGAGCTGAGGAAGCCACAAGGGAGGACATTTTCTGCAGTTGCTGAACCAAGTAG  
CAACCAGGTCCTGAGAAAGCCCTCTCTTGTTGGAAGAATAACAGCCAGGAGGAAAAGCTTT  
TCATTCTGCAAAGCTGGGGCAGAAAGTTCTTNTTTGAATCCCGCGTACCTCGGCCCGNTC  
TAGAACTANTGGATTCCCCCGGGCTGGAGGAATTC

Sequence 270

GTCTTCGGNTTTTCTCTTCTTTTCCAGGGCCTCCAANCCCTCGTCAGCCTCCCGC

Sequence 271

GGGAGGCGNNAGCGAAGGAAGAGANTNTTCGANGACGAAGAAAACCCAGCGCCCCCAGC  
NACCT

Sequence 272

TTGGAGCTCCCCGCGGTGGCGGCCGAGTCCCACAGTTAGCTGCAGCAAAACGCAGGCTGC

Table 1

CTCAGGGAAAGGAGCCTGGGTTGATTAACCTGTGTGTCAATGTCCCACCCGTCCCAGGTA  
ACATTTTGCCCCCTGAGGTCCGGGTAATTTAATGGCTGCTGGACAAAACCTCCAAAGTT  
CTTGAAAGATCAGAAATGATAGCTACCTGGAGTCCAGCTGTACGGCACTTGGCGTAAAGC  
CGCTTCCCTCAAGAGTAACATACTTCCCATGCACAAGATGATTAATACAGATCTTAG  
CAGAATCTTGAAAAGCCCAGGAGATCCAAAGAGCCCTTCGAGCACCACGCAAGAAGATCC  
ATCGCAGAGTCCTAAAGAAGAACCCACTGAAAACTTGAGAATCATGTTGAAGCTAAACC  
CATATTGCAAAGACCATGCGCCGGAACACCATCTTCGCCAGGCCAGGAATCACAAGCTC  
CGGGTGGATAAGGCAGCTGCTGCANCANCGGCACTACAAGCCCAATCAATGAGAAGGCCG  
GCGGTTGCAGGCAAGAAGCCCTGTGGTAGGTAANAAGGG

Sequence 273

TNTTAGGGNCAAACACGGCCCCAGCCCCGCGNCCCAGNCNGNGCGAANGATTTTTTCAGGG  
NGACAAAACCCAGGNCACCCACCTGCCCG

Sequence 274

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCGATGCTATGCGCTCAGTTC  
TAGTCAGAATAATCTTGCTCATCTCCAGCTCCCCCTGTTCCACCAAGGCAGAATCAAG  
CCCTCATCTGCCAAACTACCACCAAAGACTTACAAACGGGAGCTTTCGCACCCCCCAT  
GTACGCGGGGGAGGAGCCTGAGGAAGAGGGCGGCGACGGTGGTGGTGAAGGAGCGGAGCC  
CGGTGACAGGATGTTGGTGTGGTATTAGGAGATCTGCACATCCACACCGGTGCAACAG  
TTTGCCAGCTAAATTCAAAACTCCTGGTGCCAGGAAAAATTCAGCACATTCTCTGCAC  
AGGAAACCTTTGCA

Sequence 275

CAGCGAGCACGCGTNTTCCGCAACCCGAAACNCCTTACAGGAGGTTTAANACNCANCCC  
AACGGGGAGAGNNGGGGAAACATGANGACAGANNNGGGGGAANGAAAATGGNACCTCGG  
CCGCTCTAGAACTA

Sequence 276

AGGTACGTTCTATTCTGCTCCTATTAGGTCTTCTCACCGCACCGGCCCTCGGTGATT  
ACGCCTCTCCAGTTCTGCTGGGGACGTTCTAGCCTCGCCCANCCGCGTCGATCTTTATG  
TTATACCGTCACTCCCAGTGCCCTAATGGAATATCCCTCCACTACTCCCCCTGGTTCTA  
CCCGGCTCCAGAGCCTCTCCCGGCCCACTAATTTATTCCCAAATTCTAGGCCCGGCCCA  
TCAAGCCCTCCCCGCGTACCTGCCCG

Sequence 277

GACTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAGCGGGCCCTACCGTGTGCGCAGAAA  
GTGGAGGCGCTTGCTTCAGCTTGTTGGGAAATCCCGAAGATGGCCAAAGACAACCTCANCT  
GTTGNTGCTTCAGGGCCTGCTGATTTTTGGAATGTGATTATTGGTTGTTGCGGCAT  
TG  
CCTGCTGCGGAGTGCATCTTCTTTGTATCTGACCAACACAGCCTCTACCCACTGCTTGAA  
GCCACCGACAACGATGACATCTATGGGG

Sequence 278

TTCGCCCCGGGCAGGTACTTTCATCCATAAAGGCCTGCAGCTGTTTCACTGATCCTTGCGAG  
TTCATCCATCACCAACTCCATACAGTCAAAGACTTTGCTCTGGTTCTGTAATATTTCT  
G  
GTAGTCAGGTTTTGTATTAAGAACTTCATTCTGAGAAGACCCAAGATATGTCATAGGTTT  
CACTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAATATCTCTTTAGCCT  
C  
CTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCTGACGTTCTAAAGAAAACCTTTGTTAT  
GTATTCCTTCATCTCAGCCACAGATGCTTCCAAAGAAAAATCTGATGCTTTTCCATTG  
A  
ATCTTCAAAACATTTTTGNAGAGTTCCATCAGTTTCCAGGCCGTCTGCAAAATGTTTCA  
A  
TTCTTCAGAAAGAGAAGATGCTTTGGCTCTAAAACCTTCAAGACTGAAGCCCTTAGTGGC

Table 1

CCTTANGAAAGGGT

Sequence 279

CACTGTTCTTTCTTTCTAATAAACTTTCTTTTTCGAACCTATACTGTCTTCTGTAAATT  
CTTCTTACTACCCTATGACCCGTGAGCCAACCACCTTTCCGATGCCAGGGTCTGACACCT  
CACCTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCCACTTGGAAGACTACAG

A

GGAATCTTGCNCTGCATAGTTCAAATAAAAAAGAGAAGAGTTAATTACCTGAAAAGCAAG  
AGAAAACAAGAAGGGGTAAATTTGAACCAAGGGAAATCATTTAAGAAGTGTCTGGTATT  
TTTCAAATTTCTGTCAAGTTGTTACATTTGCATAAGTAAATGTTTAGGAATAAAGGATG

G

AGACATGCTTATTTTATTTAACTCCCCCAAATTAATAAANNAAAAAAAAAAAAAAAAAAAAA  
AGTCCCTGCCCGGGCGGCCGCTCGAGATAAC

Sequence 280

CCGCGGTGGCGGCCGAGTNATGCCATCTGCAGGTTTTGTGATCTGCAATGATTCTTCCC  
TTGAGGTCAGCCCATTATCTTTAATCCTGACTTTTTGTGGAGAACTCCGACATGA

GA

AACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTACCTG  
GAACTGAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCC  
CAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATAC  
TTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTAC  
ACAAAACTTGCGAGTAGAGGGTTTGTTAGAGTACCT

Sequence 281

GGGGGGAGACATGTGGAGGTCCCAGCAGAGGCCAACCTGTGTCTCTTCATCTCCCTGGGA  
AGGGTGCCCCCGAAGTGAAAGAGATGGCCTGGTGGAAAGCCTGGGAGAATGAATAAACAG  
ACTAGGGTGAAATCCATACAAATGGGAATGGTAGCAGACAATAAAAGAAAATGAACTATT  
GATGCCCCCTACTGCACAGCAGAAGCTCTGAATCGTGTTCTGAATGAAAGAAGTCAGAG  
ATGAAAAGATGGGCCAGGAGTCCAGTTTCTGGAAGGCCAAGAATCGAAGTAGCAAGCTGC  
AAGCCGTTTTCCAGACAAGCNGNGATGTGGGGATGCCACAAGAATTCAGGACTGGAGGGG

Sequence 282

CGCGGTGGCGGCCGAGGTACTTNTNACTGCCAGAGGCTGTGACGNTGTGTATTTCNGAGAG  
CAGCCTTNCCTGCANTGATNCCATCCCGCAGGAATCNAANTTCTCCCTNGATACNNGNCA  
CTCTGCCTGTCTTCCACNTTCCCTTTCNCATTTTGCANTACACNGTTCACCACNCT

GC

CCTTAAGGCTTGGAACCTCACNCCACCTTCAAGCNTCCCATGGTTCTCTGCCACTCATGG  
GTCNNGGNAACCAGGGTGGACAAGGGGCCAGAAATCAAAGNCGTTCTTTACCCCCACCC  
ATGGGCCAAGGGGAATGGGGGCCCCAGNNNGGGGTTCCCAAAGGCANCAAGNAAAANNA  
ACTTGGANACTTGGAAGTGGANGGCCATTGGNAGGCAAGNCCTNGAAAANGCCANAAAA  
AGGGGAGGGGNCNGNAACCACCNCAAAAAAGGTTTGGANGGCCAGNAAAAGGANANNGG  
GCCCCAGGGGAAAAAACCTTTTGGGCCCATTTTTTTTCCAATTTTCCAATTGGGCCT

TG

GGCCANTAATTTCAAAGGGGAAGGAATTANCCTTGGGNNAAGGGGNTNGGGGGGGG

Sequence 283

TGGCNGCCGAGGTACAGNATTGGAATGGATCTGTCTTTGGTAAAGATCAGCCTATAATT  
CTTGTGCTGTTGGATATCACCCCATGATGGGTGTCCTGGACGGTGTCTAATGGAAGT  
CAAGACTGTGTCTTCCCCCTCTGAAAAGATGTCATCGCCNACCAGATATAAGAAAGACG  
GTTTGCCTTTTCAAAAAGACCTTGGGAATGGTGGGCCCATTTCTTTGGTNGGGNCTTCC  
CAATGGCNCAAGNAAAGGGGAAANGGGCNATTGTGAAGAAGGAANANAGTATTTTACC  
TNGAAAAGGCCATAAATGGTGNANANAAATTTCCANAAATTCNCAAGNNGGTGG  
CANGCCCTNTAGTANTAAAANTANCGNCCCAAAGGAAAGGNTCANGTTTAAAAGGGGT  
TATTTTGTGTTNGGGGTAAAAATCNCAAGCCCCAAATACCCCAAATTTGNNCCCTGGAA

Table 1

CTTGGCTTTTCNCAAAGGTTTCNAGGCTTCCNATTCTCAATTCCTCCCCCAAAAGGGGAGG  
AAACCNTTTCC

Sequence 284

GTGGCGGCCGCGCCGGGCAGGTACGCGGGGGCTCTAAGCTGCAGCAAGAGAACTGTGTGT  
GAGGGGAAGAGGCCTGTTTCGCTGTCGGGTCTCTAGTTCTTGCACGCTCTTTAAGAGTCT  
GCACTGGAGGAACTCCTGCCATTACCAGCCTNCCCTTTCTTGCCAGAAAGGGGAGGGGG  
GGAAAAACAATNACAATTTATTTCCATTGGCCCAAGTNCCTTGNTNGCCAATTGNCAAG  
TGCTTTTTTTGGGCCNTTNTCTTACCCCTTGCCAAACCAAGAAAACTNAAATNTTG

N

CNACNCAAANCTTCCCTTTAGTTAGNCGCGGAATNTCNCCGCCCCCACAAGTAAGAAAGT  
TCNCNTGGNNAAGNCCCACCAAGANCCTTTTTTTTGGCTTTTTTGCCAATTTGGTGA  
AG

GGAAG

Sequence 285

TGGCGGCCGAGGTACTAGGTCCCAAATGTTTCAACCGATTTTACCCTATGTTTTCAAGGG  
TATTATAGAAGGGGAGAGGTATCCTGTAGTGATGTCCACGTATCTTGGAGTTATGGGTG  
AGTTCTACTACAAAACACTAGTTTTTTTCTTCACTTACTTAATGAGATGGCCCATAAATT  
TAATCAGGAGATGGACCAGCTTTTGGGAAATATGATTGAAATGTGGGTTTGATCGAATGG  
ACAACATTACCCAGCCTGAAAGAAGAAAACTTTCAAGCTTTGGCTTTGCTCTCTCTCTG  
CATCTGATAATAGTGTTATCCAAGATAAATCTGTGGGATTATAAACATTTAGTAGAA

G

GCCTGCATGATGTCATGACGGGAAGATCCTGAAACAGGAAACTTATAAAGACTGTATGTT  
GGATGGTCTCATCTTGAGGGAACCCAAAAGTAACCAGGAAGATGAATGAAACCACCCAC

Sequence 286

GCGGCCGAGTACCCGATAGAACATGGCATCATCAACCACTGGGACGACATGGAAAAAGATC  
TGGCACCCTCTTTCTACAATGAGCTTCGTGTTGCCCTGAAGAGCATCCACCCCTGCTC  
ACGGAGGCACCCCTGAACCCCAANGGCCCAACCCGGGANGAAAAATGAACCTCAAAATTA  
TTGTTTTTGGAGAACTTTCAAATTGGTCCCCAGGCCCATGGTATTGTGGGCCTTATC  
CC

AAGGCCGGGTNGCCTGGTCTTCTCTTATTGCCCTTNTGGGGACCGCCACAAACNTGGGG  
CAATTNGNTGGCCNTGGGAACCTCTTGGGAAAGAATTNGGGTNGGTCCAACCCCCAACAA  
AATGGNTCCCCCAATTCTTATTGGAAGGGGGGCTTAATTGGCCCCCTTTGGCCCCC  
CAAATGGCCCCANTCAATTGGNCCGTTTNTTGGGGAATNCCTTGGGCCTTGGGCCCCGGG  
AAGNAATTCTTCAACCTTGGAACCTTAACCCCTTCAATNGGAAAAGAATCCCTTGGACCT  
TGGAAGGCCGGTGGGGCCTAATTTCCCTTTTCGGNTTAAACNTAACCTTGGCTTGGNAA  
GCCGTTTGAANGNAAATTTGGTNCCCGGGGGAACCATTTCAAAGGGGGAGGAAAAAANC  
TNGNGGTTTTAATTGTTAAAGCCCTTCTTGGGNACTTTTTTGAAAAAAA

Sequence 287

CTCCCCGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCNAGGAAAAGATGGCCA  
GAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGC  
CACAGAGTGTGAATAGTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGNGACC  
TGACACANTGTGTGTCCTTGNTCTTATTGGAGAAGTTCACANAGCGCTCTGGAAGACGG  
AGCAGGGGACTGTCTGATCGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCA  
GAGGAGGTGTGNTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTT  
GACCTGGGAACCTGTAAAGCCAAGAAGAAGATGGAGAAGCCGTGCACGCAGACTGTGAA  
TTTTGCGTGACTGTTGAGTACCTCCGGCCGCTCTAGAACTANTTGGATCCCCCG

Sequence 288

GCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTGTGGAGCGCCTCACTAACTCCATGATG  
ATGCA

Sequence 289

Table 1

GGACAGACTGGCTCATNGAAGACATTNACTNTGATGGGACCATTNNAANCNGATAATTTT  
TCTCATAACCTGAGAGGAGTNATCCACGAAGTTTNGAATNTTGTTCCTTAATTGA  
T  
CGTGAAAAAGAAAAGGCTGGAGCTGGAAAGAGTTTCCTTTGTAAGTGTTCCCTTATTGAA  
ATCTATAACGAGCAGATATATGATCTACTGGACTCTGCATCGGCTGGA  
Sequence 290  
TGGCGGCCGCCCGGGCAGGTACGCGGGGCCCGTAGGAGCCTCTCTCCCTACTGCTGCTAC  
ACAAAGACCCTGAGACTGACCTGCAGGAACCTNAAACCATGAAGAGCCTGATCCTTCTTGC  
CNTCCTGGCCGCCTTANCGGAAGTAACCTTGTGTTATGAAATCACATGAAAAGCCATTGG  
GAAATCTTTATGGAACTTAATTCCNCTTTTATTTAAANCCAGGGNAAGNNAATATGT  
N  
AAAAATCCNCTTTTTTATTANNTCCCCCTCTNCAATCCAAGNANGNATGGGGGAAGCNA  
GCNTAAAACCNCTNCNNATNANANAGNTNGGGTTTCTAAATAAGNAANCCTTTCTTTCTA  
AANANGNNCNTNGNGTTCCACCGATATCTTTTATATATTNNGGGATTNANCCCCCCTN  
TGNNAGNTTATNTACTTTNACNNANGCATTTTTTTTTNNGTGNAAAAAACCCCGCNTT  
T  
AACCNACCCCAANTNGGGGTTTTTATATTGGGGGNANTNACCAAAAATGGCCTNNGGCCCT  
TNTATNANAAATCNGCGCTTTNNCNTTTATAACNAGGGAAAAAAGCCCCCCCCANNGG  
GGGNANNNCCNAAATATNTNTAANATNNTTGGNNGGGGAAAAAAAAAAAAA  
Sequence 291  
GAGCCCGGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTGGGGGAGTTA  
AATAAAATAAGCATGTCTCCATCCTTTATTCCTAAACATTTACTTATGACAAATGTANCA  
ACTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTCCTTGGGTCAAAAT  
T  
TACCCCTTCTTGTTTTCTTGCTTTTCAGGTAATTAACCTCTCTCTTTTAGTTTGAAC  
TATGCAGTGCAAGATTCCTCTGTAGTCTTTCCAAGTGGAAGGGTATAAAAAAACACTT  
TATATTATGCCAGGTGAGGTGTCAGAACCCTGGCATCGGAAAGTGTTGGCTCACGGGTC  
ATAGGNGTAGTAAGAAGAATTTACCGAAGACAGTATTNGGTTCCGAAAAAGAAAGTTTTA  
T  
Sequence 292  
CGGTGGCGGCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTNGCTTGTTTTATCTTTT  
GGCCTTTTGGTGACTTGGTGCTCCTTGGAGTCACTGGAGTTCTACTTTGAATCCCACT  
CT  
GACATCAATCGACTGCCTTAATTCCTGGTCCAGCTGCCCCGACCCTGACTCTCTNCCGCTC  
TTTTCTCAGGTGCAANGTTTNTTTAAGATCACGCTGACGTCGGACCCACGGCTGCCGT  
ACCTGCCCCG  
Sequence 293  
GTGGCGGCCGCCCGGGCCGGACGCGGGGACATTCGAGTGGGGATTAAGAGAAGGAAGGCT  
GCCTTGCTGGAGCTGTGTGGTCTTCTCCAAGTGAGAGTCGCAGGCAATAGAACTACTTTG  
CTTTTGGAGGAAAAGGAGGAATTCATTTTANAGCAAGACACAAAGAAAAGCAGTTTTTTTT  
CANGTGCTGACGGCCACCCACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAN  
GTTCTTCAAGGCANAATAATTGCAGAAAACTTCAAAGGACCCTATCTGCAGATGTTCTG  
AATACCTCTGAGAATAGAGATTGATTATTCNACCAGGATACCTAATTCAAGAACTCCAGA  
AATCAGGAGACGGAGACATTTTGGTCANGNTTGTCAACATTGGACCAATACA  
Sequence 294  
GCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAGGCACATTCTTTTCTACGTGAAGAGTTN  
TGTAAGTGAACCTTTGTTTTCAGNNCCGGCTCCAGCCATCCTCGGGTAGCTTGCCAATAG  
ATGAATCCCACTCGTTTGACCCATGACGCTCCTTCTTGCATNNCTCCCTCTTTCCCC  
AC  
AGCAGNGCATGTCCACCATACCACCTGAGAGTCTGTGGAATCTAATTTTCTGTNATACTT



Table 1

CTTTCCTTACACTCATTTCCTGTCTTTATTATGATAGTCTAACTTTTCTCCTCAAAGG  
TATAGCTGCCTTGCTTTCATGAAAACACACTTTCCTATTGTGATTATCAGAGGCCTTT  
C

CATATCTCAGCCACTATGCTATGACAGATTTTATAATTAATA

Sequence 295

CNCGCGGTGGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCCCGAATCC  
GGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCC  
TGCTTTACATCCTTTTGAGGTCCCACGAGAATATATAAAGAGCTTTAAATGCTACCAAAC  
TGGAACGAGTATTTGCAAACCATTCCTTGCTTCGCTGGATGGTCAACCGTGATGGAGTCA  
ATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGTA  
GAGGTAGAATTGGAACTCTAACTCAGCGGAATTGTATCCGACCCT

Sequence 296

CCGCCGGGCAGGTACGCGGGGCTCCCTTGAGTAGACTATGCAAAGAAAAAGTGGGCCA  
CCATATCTGGAACTACAGTCTATGCTTTGAAGCGCAAAAGGGAATAAACATTTAAAGAC  
TCCCCGGGGACCTGGAGGATGGACTTTTCCATGGTGGGCCGGAGCAGCAGCTTACAATG  
AAAAATCAGAGACTGGTGCTCTTGAGAAAACTATAGTTGGCAAANTCCCATTAACCACA  
ATGACTTCAAAATTTTAAAAA

Sequence 297

GCGGCCGCCGGGCAGGTACGCGGGGGGAGGGCTCCGAAGTCTGGTTTTGGGCGGGAATTG  
AAACCGCCGCTGAAGCCAACAAGAATTTGAGAACTGTAAATACCAAGCCTTGAAAGGGAC  
CATGGTGC GGCCGTGTGAGACATAAGAAAGCCAGTCAAATTCACAGTTTGACCACTCTG  
ACAGTGATGATGATTTTGTCTGCAACTTGACCTCGGCCGTTCTAGAACTTANTG  
GA

TCCCCCGGGCTNGNAGGGAATTTCCANATTTTNAANCCTTTTNCGGANCCCCNCNCCN  
CCCCTNAANGGGGGGGGGGNCNCNNGCCNCNNTTTTNNNTGGCCCCNTTTTGNNG  
GGGGGNGAATTTANCNNCCCCNCNCGGGGNAANAAAAATAGGGGGGNAANNTTTT  
TTNTTNGNGGGGGNAANAAAAATTTTNTCTCCCCCCCCAAAAATAAAAAACNCGNCCC  
NCTTCTNTCCCCGNTGGNNGNAAANNANTATNGNGGTCCCCCNNGNGGGGGGGGGAN  
ANTTTTTTTTTTNNNAATTTTTTTTT

Sequence 298

GTGGCGGCCGAGGTACTCCCCAGCAAATATTCTTTGTTGGCTTGCTTGACTAGATGAGCT  
GCTATAGTAGTCAATCCTGTAGACTTGGACCATTGTTGTCTGAAGAACTGGAATCT  
GT

CGCTCGCCCTGAGCACTGTATTTATTTCCCTTACTCANTCCCCAGGGGACTTCTTCAA  
GTAAGCCGACANACTTCTTGCGNGGCCCGCNCGCNCANTCTTTCCCGNCCGGCTTCTT  
AGTAACTTAGGTTGGGAATCNCNCNCGTGGGCTGGCNAGGGGAAATTTTCGGAATTA  
TTCAAAGGCCCTTTATTCNGAATAACCCGTTTCNNACCCCTTTCNAAGNNGGGGGGGGG  
CACCCCGNGTTAACCCCAAGGACNTNTNTTGGTGTCNCCCCTTTTAAGTTGGAAGGG  
GGGTTTTAAAAATATTGGCCGACCGNCCCTTTGGGTCCGNTTANAAATTCCAATTGGGGG  
GNTCAATTAAGGNCCCTGNTTTATTTCCCTTNGTNGTTGGAAAAATTTNGTTNTAAAT  
T

CNCCGNCNTTCAACNAAAATTTTCCNANNCAACCAAAACCNAATTAACCNAGAAGNCC  
CCCGNNGGGGAAGNCCAATTAATAAAAAANNTTGGTTAAAAAANGGCCCTTGNNGGGG

Sequence 299

TGGCGGCCGAGGTACTTCTGTCTTCCAGTTTCCACTTCAAACCTTCTATCTTCTCAA  
AT  
TGTTTATCCTACCACTCCCAATTAATCTTCCATTTTCGTCTGCGTTTAGTAAATGCG  
T  
TAAGTAGGCTTTAAATGACGCAATTCTCCCTGCGTCATGGGATTTTCAAAGGTCTTT  
TT  
AATTCACCTTCCGGGTTTTAAATCCTCTTTTTTAAAAAGAATCCGTCCTTCAAAAAT

Table 1

TATNTTTAAATTCACCCTTACCAACCTTTTTAAACCTAAAAACCTTTAAAGGCTTGTTT  
TAAAGGTCCACCCTTTCATTTTTTAAATCTAAAAAAGGCCATTTGGCCCTTTCTAATT  
T  
GGGNTAATTNAAATTCGGGGGGCCTCTTGTTAGGTACCCTNTTCTCTTCAAATTTTTAT  
C  
CTTTTTTAAAAATTACCATTTTTTTTTTACCTTCCCATTGAAAGGAAAGGCCTTTNCAT  
TCTTTCAAACCCCTTCCCGGTTCAATTGGTTTTTTAAGGAAAAAACCCCTTTTTTTNAT  
TTCTTTTTTCCCTTTTCCCTTCCAATGGCCCTTAANCTTTCTTTTCCCTNAAAGGGT  
GCCTTCCAATTAATTTTTTTCCTTCTTTTAAAAAAAATTCTTTTA  
Sequence 300  
CGCGGTGGCGCCGAGGTACTTAAGGTTGACTGGTAATCAGGGTAACTTCTGATACTTAT  
CACACAAGATGGTGCCTCAGCATTTAAATAAATGGAGGTAGGGGAGGGCGTGGTGGTAAC  
ATACTTTTAAACCAGCGATTGCACAGCAAACACAATGCAAGGTATTTCTGACTCCCAAG  
ATTGCCCGTTTCCCTAAAGAGCAATTCTTCTGCAGGCAACAGCAAACCTACCTTTCCTTGC  
TAACTGCTTTCAGTAAATTCTTGATGGCCTTCGATTCTGGATTCAGACATCTCTTCTCA  
C  
CCTTCTTTTTTATTGTAGCAATGATCTCAACACGTG  
GA  
Sequence 301  
TCCCCGCGGTGGCGGCCGGAGTGATGCCTCTGCAGTTTTGTGATCTGCAATGATTCTTCC  
CTTCGAGGTACGCCCATTATCTTAAATCCTGACTTTTTTGTGGAGAACTCCGACAT  
GA  
GAAACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTTCATCNGATTTA  
CCTGGAACCTGAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCT  
GGCCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTG  
ATATTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCACTGATTGAGTAT  
CTACACAAAACTTGCGAGTAGAGGGTTTGTTAGAGTACCTCGGCCCGCTCTAGAACTA  
GGTGGATCCC  
Sequence 302  
TTGGAGCACCCCGCGNGGCGTTTTGGGACGCNCGGAACNGCAATGCTTCAGGACCCACA  
GGAGCGACTCTTTAAAGGGACCACAAAANCCGCACAGAGCTGCAAACTATACATGAT  
ATAATATTAGAATGTGTGNACCTGCCCG  
Sequence 303  
GNGGCGTTTTAGGGCGNAACGGCCCCCATCATGGCGGACCCCTAGAGAAAGGCTCTTAGG  
GGGACCNAACCCGNGCCCGAACACAAGGAGANCGACGGCCGCTCTTNAACCAGNGGAG  
C  
Sequence 304  
TCGCCCAGCTTTCTCTTGCCATCTTCTCCCGCTGCTGAAATTTAGTTGCGGGCGCTG  
TCACCTCAGGACCCCTCCCCCGCGTACGCTGGATAGCCTCCAGGCCAGAAAGAGAGAGT  
AGCGCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGAATGCTGTCAGCTTCA  
GGAATCCCCGCGTACCTGCCCG  
Sequence 305  
NTTAAGAGCAAAGGCTCATGTTTGCCAAGTCTGTCTTTTGTAAACAAAAACCCAGCAGC  
TTTATCAAGCAGAATTCCACCTGTATTTCTTAACCTGCCAGAGCTGAGTCTCATGGCC  
AC  
CCTTAGCAGGAGTTGGGGAGGTATTTTAAACAGGCACATTATCATCTCCCCACCCAAA  
GTGGAGCTATTGCTAATGAAAAAGATACAATGAGATGTTTATGAAATTATCTGTAGCTAT  
TAATGTCAGGTTTTTGAAATTTACTGACCTGGAAGAATACTCATAATGCAATGTCAAGT  
G  
AGAAGCAGGACAAAGAACATTTGCAATACAGTTGTATTTATAAAATTTTGT  
Sequence 306

Table 1

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGCAGCGGAAAGCTCAGCCC  
ATGTGAGGTGCCTCCTGCCAATCACAGACTACCCTTCCCTGGTCCTGGAGGTTCAAAGAA  
TTGCAGGAGGGTAGAAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTG  
TGCGCAGAAAGAGGAGGCGCTTGCTTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGA  
CAACTCAACTGTTCTGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATTGGT  
TG

TTGCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCAACACAGCCTCTA  
CCCCTGGTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTGGATCGGCATAT  
Sequence 307

CACCGCGGTGGCGGTTTAGCCCGGCGCNAATCACCATTATCCCCCTTTAGTCACCTCAG  
AGGCTTGTTAATGCTTCTTTGTAATTAGGCTATATCTGGTATCTGTATAATATCTTCA  
G

TTCTTCTTTACCAGGGGTCTTACTCTGTTCTGAAACATGGCACCTCAGGCGGCTCCGGCA  
GCGCTGGACACAGGAACTCCTGGGTCCCCGACTCCGGCTCTCCTNGACCCCTCTTCGG  
TTAACTCCGCTTGTCTCTACAAAATGGCGCCGGAGGTCCCCCGCTACCT

Sequence 308

TGGGGNAACCCGCGGNGGCGGTCTTGGGGNCAACACGGAACCAAACGAACCGCGGCTGC  
ACCAGCNGNCTTTTTTNGGGGNGCCAAAACCCGAGCAGCCGAAANCNGGAACNGCCNCA  
GNGGTGTNCCNGCNGAAGAANGNCNANCCAGAGAGGCCAAAGNACCC

Sequence 309

CCCGCGGGGGCTTTNGGGGGCAANCGAACACCNCCTAAAGGGNNCNCNTCTAAAAATNT  
TTACNGGNAGAAANAAAACCCACCAACCGCTTTTTANTATCGAGNGTCAGAAACCNNTTCA  
AAGATGGNAAAAAAAAAAAAAGAAAAAGAAAAAAACAAAACCAAAAAACAAAAAACT  
TTACAACCACAGCTAANGCAANNNNNNCCANGGNTCCAGTCAGCTCCAANNCCAAGGGG  
NGCAAAGCCCCANNNNNNNCCAAAGCATCCAAANGANAGAGACAGGCCAGGAAANNCTNTAT  
NCTATNGGGAGCAGCANNANGCAGGGGCAGCCAAACACAAAGCNCNAGGACAAAANGGACC  
NGCCCGGG

Sequence 310

CACCGNGGACAAGAGCAGGNGGTNCTTGGGGGGNGNAAAACCCGCNCCGCGANGCAAGAG  
GCTCNGCACAACCACTACTNTNCAGAAGAGCCGGGNCNGNCCCCGGGAAAAAGAGNGCG  
A

Sequence 311

CCTGAGGAAAAGCTCGCACCAGGNGGACGCGGATNNGGTANGGGGGGTAAAAANACCCNCC  
CCAACAAGCCGCGGGGCAAAANGNCCNCGTACNTCGGCCGCTCGAGAACTAGCGNACCCN  
A

Sequence 312

CCCGCGGTGGCGTTTCCNNGGCCAGGCACTTGGAGAAAGTATAGCAGCAAACAATGCCTAT  
TTTTNACAGGAAACAGAACANATACCCAGAAAAATGCCCTGGCAATCATCAATCACAGT  
TTTCCAACATCAATAAAGTGTTAACTCCTCATTTGAAAGATGGTGTTCTCTGGATTGAA  
T

ATTGAAGAATTAATAGAGAACTTCAGTCTGGAATGGTGGTAANGGATCAGATTTGNGAT  
GNGAGAATATCTGACATAATGGATGTATATGAAATGAACTATCCACATTAGCTTCCAAA  
GAAAGCAGGCTACAAGATCTTTTGAAACAAAACTCTAGCCCTTGACAGGCTGATAGA  
CTGATTGCTCAGCATCGCTGTCAAAGAACTCAAG

Sequence 313

CCGGGCAGGCCCTTAGCATTAGATTGAGTTATGTTGCTAGGAGATNTTATTATCAGCT  
GATCATTAAGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAAATAAATTA  
TTGTAGACCTGTCTTGTATGAAAAAGCAATGTGATAGTCTTTAAATTTATCTTCTA  
AACAAGACACAAGTTTACACATTACCCAGCACAGTAACCCCTCTTGGTATTGTTTACCTA  
AAAGGAAGAAGTGTAGGAAAACTGATATAAGTAGAGAGNTTATTTGGG

Table 1

## Sequence 314

GNTTGGAGCTCCCCGCGGTGGCGGTGCGAGGTACGCGGGGGTCTGGAGGTTCAAAGAAT  
TGCAGGAGGGTAGNAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTGT  
GCGCAGAAAAGAGGAGGCGCTCAGGAATGCATGAATTGATTAATTAATGTCGAGAGCTGT  
AGATGGCTTTTCTCAAGGTGCTTCAAGTGCAGAAGCCCAAGTGATTGACCCACACACTTA  
CCTTTGTGTTCTTCCAGAAAATCCTCAGGGAGTGCCCTCAGCTTGTGGGAAATCCCGAA  
GATGGCCAAAGACAACCTCAACTGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGT  
GATTATTGGTTGTTGCGGCATTGCCCT

## Sequence 315

CTAAGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCNGTCAAAATAAATTAATT  
GT  
AGACCTGTCTTGTTTTATGAAAAAGCAATGNGATAGTCTTTAAATTTATCTTTCTAAACA  
AGACACAAGTTTACACATTACCCANTTACAGNAACCCCTCTTGGTATTGTTTACCTAAA  
A  
GGAAGAAGTGTAGGAAAAACNGATATAAGTAGAGAGTTTATTTGGGCCAAGCATGAGGGT  
TACAACCCAAGTGTATGGAGACAAGTTGGCCTGAACAATACACATTCTTATTAGCAACAG  
NTATAAGTAGGNTTCAAAGAAAAAGAAGAGGCAGNTCCTAA

## Sequence 316

TCGNCCGGGCAGGTACAGAGACCTNCTTACTTACCCCCCTTNTCCTTCGGCTGGAGCTCG  
GCGAGCGAGAGGCGGCGCTGGCGTTGGAGAGCGACGGCGGGCCCCCGCGTAAGCAGTG  
AACAACNCAGAGTAACGCGGGAATGAAGAATNTTAGGCGGGTGCACCCAGTTTNCACCAT  
GATTAAGGGTNTTACGGAATAAAGGATGATGCTTCTTCTAGTGTTCTTGCATTTTG  
GG  
ACAGAATGGAATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTT  
GAAGAAGAGTGCAGATNCACTTTGGGGGATCCAAAAGGA

## Sequence 317

TTTCGCCCCGGCAGGTACTTGGAGAAAGTATAGCAGCAAAACAATGCCTATAGACAACAGG  
AAACAGACATATACCCAGAAAAATGCCCTGGCAATCATCAAATCACAGTTTTCCAACAT  
CAATAAAGTGTTTAACTCCTCATTTGAAAGATGGTGTTCTTGATTGAATATTGAAGAA  
T  
TAATAGAGAACTTCAGTCTGGAATGGTGNTNAAGGATCAGATTTGTGATGTGAGAATAT  
CTGACATAATGGATGTATATGAAATGAACTATCCACATTAGCTTCCAAAGAAAGCAGGC  
TACAAGATCTTTTGGAAACAAAACTCTAGCCCTTGACAGGCTGATAGACTGATTGCTC  
AGCATCGCTGTCAAAGAACTCAAGCTGAAACAGA

## Sequence 318

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTATTGATGTTGAAGATGAGAAATCT  
CCTCAGACTGAAAGTTGCACTGACAGTGGAGCAGAAAAATGAAGGTAGTTGTACAGTGAT  
CAGATGAGCAACGATTTCTCCAATGATGATGGTGTTGATGAAGGAATCTGTCTTGAAACC  
AATAGTGGAAGTGAAGAGATCTCAAATCTGGACTTGAAAGAAATTCCTTGATCTATGAA  
CTTTTCTCTGTTATGGTTCATTCTGGGAGCGCTGCTGGTGGTCATTATTATGCATGTAT  
A  
AAGTCATTCAAGTATGAGCAGTGGTACGGGTGGGAATAGCACTACACTGTTTCATCTAGCC  
TTGTAGAATAAGTCCAGTGAAGTATCTGAGAAATCTCACTGTTAT  
AT

## Sequence 319

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTCAAN  
G  
TTCAGTTTCTTTAATGACCCCCATCTCCCTGAAGGGCAGGTGCAGGCAGCTAGGTGATG  
GCAAGAGATGTTCACTTGAAGATCTTGCCCTGATTGAAGGCTTGCCACATGCTGGAAG  
GCCCCCTCCAGGAAAAGTACCAGACATCAGCTGCCTCTTCTTCAATTTTCAAGCCAAAGAA  
AGGGCACGTTCAAATGAGGTCAGAGTCATATCATACTGCTGGGCATAGAAGCAACACAGC

Table 1

CCCAGATTGTTAAAAAGCTGGCCGTTATAAATGCCCATCTGCAGCAGCCGCCTGTAAAC  
CGGAGAGCTATTTCTGGCTGATCAGAATAGAAGTGGTTG

Sequence 320

ACCCNCAGGAGACGCTCGNAGCCCCCGCGCTNNTCCGGGGNCAGAAAAACCAAGAAGCG  
GCTCACGCCTTCCAGAGCCACATCATNTNTGGNCGAAANAGAAGCCCAGACNAGAGGAAG  
GNGNAGGAGGCCNGCAGGNACC

Sequence 321

CAAGCGGAGNNAACCGAAGAGGGGNACTTGGGGGGCCAAAAACCCGACCCAGGAGNNN  
CCNGNGNCAGCGCNGCCGTTCCGCCNGAGGGGGCACNCCCCGCCAAGGCNGGAGNG  
CAGCGGCACAANCCCNCGNCACNGCAGCCNNGANANNNGGNCNCAGGNGACCAGCACCC  
NTGCTNTTTNTACNGGGAAGNNGCNAAGCNACCNGNCAANANAGCANACAAANNGAAACN  
GGGGGNGGNGAAGGANCNNAGAAGNNGGANGCCAGGAAANGGANGAAGACCAANGGGC  
CANGNNNCAGAACAGAGAAGACCCCNNGNAA

Sequence 322

CTCCCGNGACGAAAACACAANNGNTTCTTNCGGGGACAGAAAACCCAGACCCAGCTNCA  
GGGACAGCCTGGACTACTTTNTTTTACACAAACAAACCTCCCCGCGNANNCTCCTGGGC  
CA

Sequence 323

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCAATACTTAAAAATAGTCTTCC  
ACAAAAATACTTTATTTCTGATCTATACAAATTTTCAAGAGTTATTTCTTTATCATTG  
CTAAACTGATGACTTACCATGGGATGGGGTCCAGTCCCATGACCTTGGGGTACTTTTTTT  
TTTTTTTTTTTTTTGGAAAGCTCTGCCATAAACTTCTAGCGTGTGCCAATGGTCACC  
T

GCCCACTCGCACCAGGTTGTCCGTGTAGCCAGCAAACAGAGTCTGGCCATCAGCAGACC  
AGGCCAGGGAGGTGCACTGGGGTGGTTCTGCCTTGCTGCTGGTACCTGCCCG

Sequence 324

GGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTAANGGGGACGT  
TA

AATAAAATAAGCATGTCTCCATCCTTTATTCTAAACATTTACTTATGACAAATGTAACA  
ACTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAT  
T

TACCCCTTCTTGTTTTCTTGCTTTTCAGGTAATTAACCTTCTCTTTTT

Sequence 325

ATTGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCAAGTTAAAAGCAGAAGATGCTTCTG  
GTAGAGAGCATTTAATCACTCTCAAGTTGAAGGCAAAGTATCCTGCAGAATCACCAGATT  
ATTTGTGGATTTTCTGTTCCATTTGTGCCTCCTGGACACCTCAGGTAAATTCCT  
C

AGAGCTCCTTAATAAGCATTTATAGTCAGTTTTTGGCAGCAATAGAATCACTAAAGGCAT  
TCTGGGATGTTATGGATGAAATCGATGNGAAGACCTGG

Sequence 326

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTAAGGGGA  
GT

TAAATAAAATAACGCATGTCTCCATCCTTTATTCCTAAACATTTACTTATGACAAATGTA  
ACAACTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAA  
ATTTACCCCTTCTGTTTTCTTGTCTTTTCAGGTAATTAACCTTCTNTTTTTAGTTTG  
AACTATGCAGTGCAAGATTCCTNTGTAGTCTTTCCAAGTGGAAGGGTATAAAAAAACA  
CTTTATATTATGCCAGGTGAGNGTCAGAACCTGGCATCGGAAA

Sequence 327

GCTCACCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAAGTGACATTTGAATTTCT  
TTTAAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGCGTACCAGCACA

Table 1

AACCGGGCCAGCCTCCTAACTGCTCATTTACTGGGCGTCTACCGGGAATCCGGGGTCC  
CTGACCGA

Sequence 328

CGCGTCCGCCCATCTCAGTGTACAGACACTCCTGGGTTTGAATTTTGTGTTCTCT  
GT  
CTCTTTGATTTCTGGAAGACGACACCATGACAATTTCAAAGAAAATAGAACAAAATGAA  
GGAAAAAGAGGCTCTGTCTTAGCACATTCTGTGACCAGCCTGCTGTCTGTGGCGTGCCC  
TCCTGGCCCGGCCTTGGCACATGTTTCGNTTTGTGGTTGTTGCCTGGACAGGCAACTCTG  
CAGGGCTGCTTCTCTACGCATCCCTTTGCCTGCCTGCCTGTGCCAGGGGTTGTCAAGGGC  
TTTTGGGTGAGAGTGGGCACCCCTTTCTCAAGGCTCCCTGCAACAGCTGGCCTGTCCCT  
GGTGGGGCT

Sequence 329

NAACTTTACAGGATGGCATTTAATACAGATATTTTCGATTTTCCCCCACTGCTTTTTATTT  
GTACAGCATCATTAAACACTAAGCTCAGTTAAGGAGCCATCANCAACACTGAAGAGATCA  
GTAGTAAGAATTCCATTTTCCCTCATCAGTGAAGACACCACAAATTGAACTCATAACTA  
TATTTCTAAGCCTGCAATTTCACTGATGCATAATTTTCTTATTAAATATTTAAAGAGAC  
AGTNTTTTCTATGGGCCATCNTCCAAAACCTGCTATGNACCATNCAACTTAGGTTCT  
TA  
CNTTTCCTGCCTTAAATTTNTAATGGAGNAANGGGTATTTCTTTCAATTTTTAAATTT  
GCATTTTTTGGGGGAATTATACCTTCCACCAATCTTTTGANTNTATTTTCTTTGG  
A

CCTTAAATCATGAATTTTTTTCAAATTAANAAGGTTNNAAGNTTTAAA

Sequence 330

AGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATNGTTCACCTCACTTTCAAAGCCAGCT  
GAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTCAGTGTGCTTCTGACTTTTACGGACT  
TGGCTTGTTAGAAGGCTGAAAGATCGAGCGGCCCGCCGGCAGGTACTTTTTTTTTTTT  
TTTTTTGGCTTTCTTTGCTCCTTTCTTATGATCAGCCACATTTCTTCGACCTCCTTCTC  
CTTCATCCTCAGAATCTGAGAATCTTTCATCACAAGCTATCCGCTTGTCTGATGCTCG  
AA

TAGAAATTCTCTTGTCTGGATCTTCTCCATCTTCATCTCCACTGTCTTCATGAACAGCA

T  
CTTCTGGAATAGCCTGCATCTGGACACCCAGGTGCATGAGGTAACATGCGCAAATTTTCA  
AACAAACCGCTGGTTTATCTTTTC

Sequence 331

CTNCCGCGGTGGCGGCCGAGGTACTAGCAGTTGCCAATGAAGGAGGCTTTGTTTCGATTGT  
ATAACACACGAATCAGAAAGTTTCAGAAAGAAGTGCTTCAAAGAATGGATGGCTCACTGG  
AATGCCGTCTTTGACCTGGCCTGGGTTCTGGTGAACCTAACTTGTTACAGCAGCAGGT  
GATCAAAACAGCCAAATTTTGGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGT  
CATCAATGCAGCCTCAAGTCAGTTGCCTTTTCTAAGTTTGAGAAAGCTGTATTCTGTA  
CC  
TGCCCG

Sequence 332

CCGCGGTGGCGGCCCGCCGGGCAGGTACCATCTGACTTGGCAATGTAATGACACACACGT  
TAGTGTGGGGCAGAAACGTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAAATCCAGAG  
TCACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAG  
TAGAACATGGTACCT

Sequence 333

CGCGGTGGCGGCCGNTCGGGCAGGTACGCGGGGACTCTGAACGTGCTAAAATGGGAAGGG  
AGGCGGTGTTTTGCTGATCTGTTAAATTTCTAGTGAAGTTTCTTGATTTCCAGTGGCT  
G  
CTGTTGTTTGAGTTTGGTTTGGAGCAAACTGAGGTAGTCCTAACATTTCTGGGACTGAA

Table 1

TCCAGGCANGAAAAAAAAAAAAAAAAAAAAAGGTACCT

Sequence 334

CCCCGCGGTGGCGGCCGAGTTTGATTCTTGCAGTCCTGAGCGATGGAGCCCCGGGGGTGC  
CTGGTTATTGTCCGCTTCTCTCTCAGATGCTTGGCTTGTTCAGAGAACCTTTTT  
C  
GATATTCATTGCTCCATCGATTGGATCCAGTCCTTGTTCAGAAAATTGTTTCAAGGCA  
CT  
TAAGGCTGCCTGAAAGCCTTGAATCCTTGCTAAATATTCCAGTTGTTTTGAAGGTTGT  
AC  
CTCGGCCGCTCTAGAACTAG

Sequence 335

GCTCNCCGCGGTGGCGGCCGCCGGGCAGGTACTTGACTGCTAACAACCTTCAAATTCTT  
CTACTTACTCCCTCTTCTTCAGCTTCACATCTGGGAAAAGTATAGGGAAGCCTAGGTAG  
GCCTACCTTTGGTGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAA  
CCTCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCTGC  
TTTCTCAAACCATGTTTGACCTGCTTGAAGCTCCCTCTGCTCTCCCTAGAAAGCTT  
CA  
TTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGTGTGGTATCATCAGCC  
T  
CAACATCTGAAGCAAATGTTGGGTGGGGGGGTACCTCGGCCGCTCTAGAACTAGGTGGAT  
C

Sequence 336

CTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTCATGAAGGAGATGGCCCCCTTTGGGAGC  
AACCAGAGAATCACTGAGATCCCAATGGAAACAGGAGGTTAGCCAGAGGAACCGACTTT  
TAAGGGATCACAGAGCTCACACCAAAGACCAGGGGAACAGTCAGAAGCCTGGCTTGCTCC  
TCAGGCTCCCAGGAACCTGCCTCAAAACACAGGTCTCCACGACCAGGAGACAGGTGCTGT  
GGTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGACACAGAGCTGTATCCCTCTG  
TCAGCAAGAATGGGATGTGCCCAGGCCCTGCACAAAGGGCCCTCTACAGGGGGTGGCACC  
CAGAGGAAGGGACAGTCACGTCTCGCTGGCAACAGGGGTGTTGCCCTGGGGCTATTGAAGA  
GACCAAGACGCTCCTGGCTATTTTTTAAGTAGTTCTCAATTTTTATGGGNAAAACNCA  
A  
GACCTTNTTCAGCCAGNAACAGCCCCAGATTCTTACAGGGGCCATTGGGCGGAAGGGACT  
CTTGGGAGCCAANGGGTTTTTTT

Sequence 337

CCGCGGTGGCGGCCGAGGTACGCGGGATAATCAAGGTGTACATCCCGGTGGCTGGACATG  
CCCTCTTGGGCTTGGCAGATGCCAGTGGATCCATACAATACTCCGCCTGGTGGATCTG  
AGAAGAGCCACGTGCTGGAGCCATTGTCCAGCCTTGCCCTGGAGGAGCAGTGTCTGGCTT  
TGTCCCTAGATTGGTCCACTGGGAAAAGTGAAGGGCCGGGGACCAGCCCTTGAAGATCA  
TTAGCAGTGACTCCACAGGGCAGCTCCACCTCCTGATGGTGAATGAGACGAGGCCCAGGC  
TGCAGAAAGTGGCCTCATGGCAGGCACATCAATTGAGGGCCTGGATTGCCGCTTTCAATT  
ACTGGCATCCAGAAATTGTGTATTAGGGGGCGACGATGGCCTTTCTGAGGGGCTGGGAC  
ACCCAGGGTACCTGCCCCGGGCGGGC

Sequence 338

NAAAACNCCCCCGGGATAGAAGNNATTTTTNTCAGGGCACANANTTAGAANCCAGNNG  
GNTTNTANACCCAAGTGGCAACATCAAGAANGAGCGGGGGGGGAAAAAANTGACAGGA  
CGGGGAGCGGGCNCAAGNGGCAGGGAAGGGAGACNCCACCNGNGGGGGNCTGGGGG  
CCCNAAACCGNACAAAGGGGNGGNACACTGGCCCGGGNGCCGGGCGGAANNGAAGN  
AANNTAAGAAGGGGGANCNCCCCCGGGGGTGNAAAGGGAAAANGGCGAANAANNCAANGC  
NCAAAANCNGAAANNCCCGGGNNNAACCCCNCGAAGGGGGNGGGGGNCCCGGGGAACC  
CCAAGNGGGGNTGGAATCCCCAANAAGAGGAGGGGGGCGGAAAATNCCGGCNGCCGCC

Table 1

AAGGGGGNGGNAAAACNAANGGGGGCAAAAAGGGCCNNGGNNNNCCCCGGGGGGGAAAA  
AAAAAGGGGGGNAAAANCCCCGGCCAGGAACAAAAAAGGCAAAAAACAAACCAATNA  
ACNNGGANNNCCNNGGGGAGGCCAAAAAAGGGGGGGGAAAAAGCCCCGGGGGGGGG  
GGGCGNCNNAAAAAGGAAGGGGGGGGGGCCGAAAAACNGCCAAAAAATANAANNNG  
GGCGNNTNNGGNNGGCTANCNAAAANGGGGNACNNGGGGNNCTTCCAAANNAAGGGG  
AAAA

## Sequence 339

CGCGGTNGCGCCNTCNTTTTTGTTTTTTTTTTTTAATAGCTGAAGATTTAGATTTAT  
TTGAAACACTTAGTCTAATTTATATTAGGTGCAGAAAAATCACATTCAATAAACACA  
A  
TTGTAGAAGAGACAGATAAGTGTGTTTGTACATTTTACACAAATATAATTTGATNTT  
T  
AATTAAGGGATGATGAATCNCAACCCCTTGTTAATAAATGATTTNTTCTCTCAGTAANT  
A  
GCAAGAATCTNTTTTGNGGTNNCCGGGNCCTCNNGGGGTTTATTCNNANACNGGGNGCCG  
TTTTANAAATTTAAGGGAATTTTTNTTTTTTAAAGNCCCNNTNCCCTTCCCCTTTTT  
TGGGCNATTTCCCCNGNAANAAAAAATTTTNNCCCCGGGGGNATAACCCCCCCCNAG  
GGGGTAAAAAAACCCCCNTCTNNGACNNAATTTTTTGGGGGGGCNNGGTTTTTTTTNG  
NAANAANTTTTTTTNCNNGNNAAAACCCCNCTTNTAGNNGGGGGGGGGGGGGGNGNT  
TT

## Sequence 340

CACCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGAGCGGGCCCTACCGTGTGCGCA  
GAAAGAGGAGGCGCTTGCCCTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAATC  
AACTGTTGCTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATT

## Sequence 341

GCGGTGGCGGCCCGCCGGGCAGGTACCAAAGAAGATGCAGTTAAATACTGCCAGTTTTT  
CAAGAAATTTTGTAAGTTGAACATGGCCATCTACTCTTGCCTTAAACTTTTTCTCACC  
A  
CACCCACCTTCCACATGCATGATATCCAAGGTCGACAGACCTGGATTAGAATCCACTCT  
CAAGCTTTATGCAGTGCGTATTGATTTTCTGCATAAGAAAGGGCTGCCTCTAGAACACA  
GTAAGTGTATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTATACCA  
ACTTAGTATATTTTTCAAGGAGAGCTAAACCACCTTTTGAATGTTTGGTTTCTCACTG  
N  
TATCTTCCTTTCCTATAATTAATTTATTTTAACTACAAATTGACATAGGGCTAAAAGCT  
TCAATATTTTACAAAATATTAATTAATGTAATTGTTCCCAATTATTAGAACTTTTTTCC  
ATTTTTCAAATGTTTGCCAACCTCACACAAGTGTTGTAATAAATAGGGCTCT

## Sequence 342

CCGCGGTGGCGGCCGAGGTACAGGTTTAGTCTGAATGCACTGTCATGAAATTTAACTTT  
CATTATAACTGTTTTAAGAACTTACAGCATCTGCTTTACAAATGGTGTTAGCTACAT  
G  
TCGACACAGCATCTTTAGCCAGTTTTCTTTGGAAGTTCATCTGATGTCATCTGGAAAC  
T  
GAGTAGCACATTTGCCTGCTCTGTTGGTGGCCTCACAAGCAAGGCAAAAGCATTATGGCA  
ATCTAGGGTTCCAGAATAACCATAAACATTAAGTGTCACTCCTTGAAAATGACAGATGT  
ATGCAAGTTTAGTTCCCTCAGAGCAATGAAATTCGAATGAAATGAACTATCACTTCTCCA  
CTTTCCTTGCTTATTTTTAATAAGACAAAGAACATCACCATATTAAGTTGAAGTACCT  
G  
CCCGGGCGGCCGCTCTAGAACTAGGTGGATCCCCCGG

## Sequence 343

CCCCGCGGTGGCGGCCCGCCGGGCAGGTACATCAGAGATGCTCACACCATTTCTTGAGTA  
GTTTAAAACTCATTTTAACCACTTTTTATTCTTTGTATTCAAACCAATCACTGGCAATA



Table 1

GCTCTAAGTAGGTCATCAACTCTCCTCCATGTCTTCTTTCTAATTCTGCCACAGACTCA  
 C  
 TTCTTCCCGTAAATTAATGGAAGGAAATGAGTGTCTGAGTTCTTAGAATCTCAAAAGGCA  
 TGAGGATAAAGCTTTCCTGGAGATAATATAAGTGGTGGCAGGAAGATTGGGAGCCAGAT  
 GATACTCTTTTCTCTTAGAGAACTCTGTGGAAGCTCTGCCTATACTGTGGGAAATAAA  
 TTCTAGACGCTGGCTTCTTTCTGTAGTAAACATGTGGGCCCTTTAAATGTTGAACCA  
 AA  
 ATGTGCTTCAAATATAGTTTAAAGTTATAAAACATTTATGGGGGAGTATGTATGTGCCAA  
 C  
 TACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGTGTTGCTTAGAATCTAGTAG  
 TAGTAAGTAATAATTACTAACATATGCATTTACTATATAGGCAATACTAGGGTAAATATT  
 TTACATAGATTACCTTATTTAGTAGCTCTTAGCTGCTAAAAAAAAAAAA

Sequence 344

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
 GG  
 GGGAGTTAAATAAAATAAGCATGTCTCCATTCTTTATTCCTAAACATTTACTTATGACA  
 A  
 ATGTAACAACTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGG  
 T  
 TCAAAATTTACCCCTTCTTGTTTTCTTGTCTTTTCAGGTAATTAAGTCTTCTCTTTTTA  
 GTTTGAACTATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAGTGAAGGGTATAAAAAA  
 AAAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCCTGGCATCGGAAAGTGTTGGC  
 TCACGGGTCATAGGGTAGTAAGAAGAATTTACAGAAGACAGTATAGGTTGCAAAA

Sequence 345

AGGTACACTGCGGCGGGGGCAGAAAAGCTGCAAGGAACAGAACAGCAATGCAGAAGCTC  
 CTCGAAGGGCCACCATCATCTGCAAAACACCAAGCAGGGCAGTCTCTTATGCTGTGGCT  
 CTTCTCAAGGATGTCTCAAGGGCTCCGGTGGTGTCTCTCTGCTCTATCCGCTGCTGTGGC  
 AAATCCTCTAAAAACAGCGTTTTGCACAGCAGAGAGCAAAGTCCGCTTGTTATTCACCC  
 GATACGTGAGCTCAGTTTGCCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCT  
 GAGGCCTTGAGACTGACCTGTGGCAGAGAGCTCCCTGGGTCCAGCATCTGTTGCCCTCA  
 CCCTTGACACATGCGGACCCTCCCCAGGC

Sequence 346

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCGGGTACAAGAGAAGAAAGACCAGTCCTTGCT  
 GAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAA  
 C  
 TTCAATGTCCGATGGATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCATT  
 CTCTGCTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACCCATTCCCTTGATGTCTAC  
 AATATCACCTTTCTTATAGATTGCGATATATGTGGCCAAAGGAACAACTCCATGTTTTT  
 T  
 AAAAGGCCTAGAGAACATATATCGGGTGCCTCTCCTCTTTCCCTTTGTGTTGTCATT  
 TT  
 GGCGAATTACTGGAAGATG

Sequence 347

AGCTCNCCGCGGTGGCGGCCGCGCCGCGGCGNGGTACCACNGCCCAGCTAATTTTTTATGTT  
 TGTAGTAGAGACGAGTTTACCATGTTGGTCAGGATGGTCTCAAACCTCTGACCTCAGGT  
 GATCTGCCTGCTTCGGCCTCCCAAAGTGCTGAGATTAGAGGCATGAGCCACCATACCTGG  
 CTCTTTTGCTTCATCCATCCCTTAATTTCTTTGCTGGAGCATTTTAAAGCAAATATCAG  
 A  
 CATACCCCTTTCACGCCTCACACTTCAACATGCGGCTTGTTGAAATTCGTGCTCCACTCCA  
 GCAACTGCTTTCAATCGGAGTTCCATCCTCCGCCGAGTATGCCCTAACGCAAGCGTTAT  
 CTTAGAGCTACCACCAGGNTCCGAACTTTTTCGGNGGGAGGCGCTTTNGCCACCACC

Table 1

TNGCCGGGNNAAACGGNTNGCGTNAAACCAAACCTTTGAACGGCCAGNCCCCCGNGGTAC  
CTTNGGGCCGGTTTAAAACTAAGNNGGGGATNCCCCCGGGCTGGCAGGGAATTCGAT  
ATTCAAGCTTAATCGATACCCGGCGACCTTCGAGGGG

Sequence 348

ACTCCCCGCGGTGGCGGCCGCGGGCAGGTACTTGACTGCTAACAACCTTTCAAATTCTT  
CTACTTACTCCCTCTTCTTCAGCTTCACATCTGGGAAAACCTGATAGGGAAGCCTAGGTAG  
GCCTACCTTTGGTGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAA  
CCTCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCTGC  
TTTCTCAAACCATGTTTGGACCTGCTTGAAGCTCCCTCTGCTCTCCCTAGAAAGCTT  
CA  
TTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGTGTGGTATCATCAGCC  
T

CAACATCTGAAGCAAATGTTGGGTGGGGGTACCTCGGCCGCTCTAGAACTAG

Sequence 349

CCCGCGGTGGCGGCCGGAAGGAGGACGACGGTGCTGTGCTGTGTATGAAGAGGCAGTGAA  
GACTCTGCCAACAGAGGCCATGTGGAAGTGTTACATCACCTTTTGCTTGGAAAGATTTAC  
TAAGAAGTCAAATAGTGGGTTCTTAGAGGGAAGAGGTTGGAAAAACCATGACTGTATT  
CAGGAAGGCACATGAAGCTTCTGTGCAATGCCAATACAAGCAGTTGAGTGTTC  
GTTGCTGTGTATAACTTCTGAGGGAAGCTCTGGAAGTGGCAGTAGCTGGAAGTGAATT  
GTTTAGAGACTCTGGGACAATGTGGCAGCTGAAGCTGCAGGTGCTGATCGAGTCAAAGAG  
CCCTGACATAGCCATGCTTTTTGAAGAAGCCTTTGTGCACCTGAAACCC

Sequence 350

CTCCCGCGGTGGCGGCCGCGGGCAGGTACCCGTGCTAAAAGACTTTTAGTTCGGCTCT  
CCAGTGTTTTTTTTTCGTGATTTGGGCACAGAGTTTCTGGTTCACGTGGATGTGA  
GG  
ATCCTTTACTCCAGATCGCCAGCCAGTTTTTGTTTTTTTTCTGCGTTGCTGAGAGTCT  
G  
GGTTTATTCATCACACCAGGTGGATCTTAATTCATATCCCTGAGGCCACTGCAATGAGG  
CAGAGGAGTGTGCTCCCTCATGAGAAAGGACTGGAGACCGCCCCCAGAAGAGAACGTATC  
CATGTACCT

Sequence 351

CCCGCGGTGGCGGCCGCGGNNCTGGTACTTATAATGCCNNNNNTTNCNGGNTGTGAAT  
GGATTACANTGTATCTTTTCAGGGAAACCTATTATTATCAATGTGACTCCACNGGGGAG  
TCCATGGTGATGATGATGAGGAGGAGGATGATGATGATGAGACACCTCTAAACTTGGAAC  
AAGTTTAAGACTTTATGAGAGAAGAAAAAATCACCAACAAGAATTGTTTGAGGAAAAA  
TCATAACTATCCTGTGTTCATTTTTTTTTATAAACAATAAGAAAAAGTTGTTGGATTT  
TTTTTTAATGATTTCTTTTTTGGGGGAGGGAATTTTGTTCAGTTTTATGGTGAAAA  
T

GCAAAAACCAGAGCCAGGTGCATAATCTTGAATCTGTGGATATCCCTGGAGCAGGACTG  
ANCCT

Sequence 352

NCCGCGGTGGCGGCCGCGGGCAGGTGTTGTAACAACGCAGAGTCCCGGGAAGCAGTGGT  
AACACGCAGAGTCCCGGGAAGCAGTGTTAACAACGCAGAGTCCCGGGAAGCAGTGTTAA  
CAACGCAGAGTCCAGGGAAGCAGTGTTAACAACGCAGAGTACCCGGGGAAGGCAAA  
TAGAATGAGAACCATTATGTACCT

Sequence 353

CTCCCGCGGTGGCGGCCGAGGTACCCAGCTTTGTCTCCTGGCCCCAAATCTCCTTTTC  
CTTACTTTGGGCATTAACTGCTGTTGAGGTCTCACAGCCTGATGGTCATTATCCCTGA  
AT  
GGCATAAATCAACAGGCTGTATGAGCATTGTGTGAGATTCTACATGAGGGAGAGCATTTTC

Table 1

AAACCCATGACAGATGAGAGAAGTTAGTACACTCTCACTGAACTGGGGATGTTTGACTTA  
AAATGATGGACAATAAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAGGCTACGAGAGGCC  
ATGAGCTCCTCATCTCTTCTCTGTTCTGAGCTCTCTGATCCACCGCACTTGGGGCAGGGG  
GTGCATTCTCTGTGCCTCTCCTGAGTCTACTTTCTGCATCATTGGGTTCTCCAGCTC  
AC  
TTCCATAATGTCCTCCTAGGCTGCATTGGAATTTGTGTGTTGTCTAGACCCATGGCCAAN  
ACTGTCATTGCCTGTGAGGGAGACCAAGCTTACCCACCCAAGGGCTTTTG  
C

Sequence 354

TGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
GC  
CTTTAGAAGGTTAAATGCCAATATAAAGCTAAAACAGTAATCATCAGAGACAGCTCTAA  
TAAGGCTTTGCTACTGTTTTACTATATAAATCTTTACGTGTTAATGGAAAGAAAATTAA  
TTCATTCTGTTACTCCATTTTTCTCTCCATATTGTATGCCTGAAGTGAGCTGATGAG  
G  
GGCAGAAAGATCATAACAGTTAGGAATGAAGACATCAGAATGTTCCACTAAACAGATATTT  
AAGTAGATACTATTATACTACTAAGAATAGCAAGAATGTCTCTCAATTCTGGGAATTTCT  
T  
CCTAGCTCACACAAATGAAACGCACATCTCCATGAATGCTTTCTAATAAATGCTTCCAGG  
ATAGTATCATAAACAAGTCAAAATTAAGAAAAATCAC

Sequence 355

GCTCCCGCGGTGGCGGCCGGAACCGCCATCTTCNAGTAATTCGCCAAAATGACGAACACA  
AAGGGAAGGAGGAGAGGCACCCGATATATGTTCTCTAGGCCCTTTAGAAAACATGGAGTT  
GGTCCCTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAGACATCAAGGGA  
ATGGGTACTCCAAAGATTCAGGTTTACTCACGCCATCCAGCAGAGAATGGAAAGTCAAAT  
TTCCTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACTGAA  
G  
AATGGAGAGAGAATTGAAAAAGTGGAGCATTGAGACTTGTCTTTCAGCAAGGACTGGTCT  
TTCTATCTCTTGACCT

Sequence 356

GTTGAGCTCCCGCGGTGGCGGCCGAGGTACCTGACTGTGGCTCAGATCTGCGTCGCAGCA  
GCGAGAGAAGAAATCACTCCATATCCGATGAGAGGAAGGGTGGCACAGAGATGGTGTCTA  
CAATTAGAGACATTTCTGACTCCACCTTAGCCTAAGCAAACCTTTATGTACTGAGTAACA  
T  
TTGAAGGTTGTCTTTAATGGTGGGGGGTGTTTTTTCTTTTTAACTACAGTGCTTGC  
A  
CAAGAGAGGGAGGGACTCAGAAAAGGTTAGGGCAGGTGAGGGAGACAGTAGATGGCCTGG  
GATGACTTGAGTCCATCATACTATTGCTTGGCAGGTGTCCTCCCCCATGTTTGATTCA  
AA  
TTCCATGAGTGACCTACCTTTCCCCAGGAATGGGACTGAGAGGGTAGTCTCCAGCAACTC  
AGTCTGCACAGGGCTCCCCGTTGAGGCTGCCTTT

Sequence 357

TCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATCTGACTTGGCAATGTAACGACACACA  
CGTTACGTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAATCC  
AGAGTCACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCT  
CCAGTAGAACATGGTACCACCATCTTCCAAGTTCAAAAATTATCTTTGATTCAATTTG  
T  
TCCCCATTCTCTAATATGTCACCAATTCTGCTGATACATTCTTGTAATCTCTCCATC  
T  
ATTTTAAATCTGTTATTCACCTGAGCTACACAAACATTCATCTGCACAAGGAGTATTCCA  
C  
GTGCTGAAAAGACAGAGGATTAAGCCCTCCTTGTGGAGGCATTCACAGTCTGGTTTTAAT

Table 1

ACACAAACCAACAATTATAATACACAGGGATAAAAAAGTAGAGGCACTTATTGCATACC  
TGTAACCT

Sequence 358

TTGACTCCCCGCGGTGGCGGCCGAGGTACTTTCTAGCAGTCTGTGGCCACTCCATACTC  
AGCTGAAAACACTGTTTCAGCCCCCTCTCTGGTGACCTCAGCCTTCTCCAGGTGTATCTC  
TTGATGATCTTGGAGACCAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGACTGTCAGGC  
TGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTGTTCTCTGTCCCTC  
TGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCACCAAGGGCA

Sequence 359

CGGTGGCGGCCGCCGCGGCCAGGTACTGGTGTTGTGATCGGAACGTGTCGATCCCCCTCTTC  
TCATCACTGCTGCTCCAAGTGGATTTATTACTCCGGGAATGGTAGAGAATAAAGATTTGT  
AGGAAAGGTGCTGAACTGCCAAGGAAGGCATTTCTGTGCCGTGCTGGAACCGTGATC  
CTTACTACATCACTGAACGACACCAAGCACCCATGCACTTCTGGGTCCAACCTTGGCCC  
CTGGAGAAAGACACTGAAATTTGGCCATGCAGGTCTACTTCCCGTAGGGGGGATTTTTTT  
TTANNAANTGTTTNNGCCCNNTTTGAAAAAGGGNTTTTAAANCNAAAAANAAANTTT  
T  
NTTCCCCCGGGGGGNNGGNNTTTTTTTAGGGGGGAAAANGGNGGTTTTANTCCCCCN  
NNGGNAAANCCCCCNNTTTTTNTTTTTTGGGGNNGGGAANATTTTTNNGGGGTGCN  
CNGGNGNNTTNNNNANAAANNAACCCCCNNTTTNNTTTTTTAANANACCCNCNNN  
AANNGGGGGTTTTTTTTTTTTTAA

Sequence 360

TGGCGGCCGAGGTACCTACTGAAACTAAACACGCCAGAGGAAATTTGGCCAGTTATCCA  
ATTGATGAACTANTAGGATAGAGCCAAACAATCTTTCAAGAGGGTGTTGTGAGATATG  
GTTGACCAGTGAAGACACGGGGGCTTATGGCAGAGATATTGGCACCATCTNCCCACACT  
CCTGTGGAACTGGTTGAAGTGATTCTGAGGGAGCAATGCTGAGGCTTGGCATGACAAA  
TCCGCCCTATATTTTAGAGCATCTGGAGGAAATGGCANAAATCCTTAATCACCCAGAGT  
CTACGCTTTTCTGCACATACCAGTCCAGTCTGCCTCCGACAGCGTACCTGCC

Sequence 361

GATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGA  
ATTTCTTTTAAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGCGTACC  
AGCACAAACCGGGCCAGCCTCCTAACTGCTCATTTACTGGGCCGTCTACCCGGGAATCC  
GGGTCCCTGACCGA

Sequence 362

GAGCTCCCCGCGGTGGCGGCCGAGGTACGTATGCACAGCCTCACACTCTATAAATGTATG  
TGTCCTGAATTTAGAGCTTAATAATGAATTATGGAACCTTGATAATGATTGGATCAGGCA  
GACAACACCTGATCAGTCCTAATATCAGAAAAGAGACAAGTAGACATTATGTGCTTCCTG  
AGGTGAGGCAGTAGTAAGGAAACAACATCACACATGTAGCAGTCTTGGGAAAAAAATGT  
AACCTGTATCTCGTAATGAGGAAACAATCAGTAAAAAGTCTAGATTGTGGGACATTCCA  
CAAACCTTGCTGAACCTTTAATAATGTCAAGTGCATGAAAGACACACCACACACACACA  
CTGCACATCATACACAAACACCACCCACCACCCACCACTCAGACACACACAAAAGGGCA  
ACTCTAATCAATTAAGGAAACAAAAGAGAATGACAACTACATATAACGTATAATTCTTG  
ATTGGATCCTGGATTTAAAAATAAACAGCTATAAAGGATATTTT

Sequence 363

GCTCCCCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGAATTTCT  
TTTAAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGCGTACCAGCACA  
AACCGGGCCAGCCTCCTAACTGCTCATTTACTGGGCGTCTACCCGGGAATCCGGGGTCC  
CTGACCGA

Sequence 364

TNCCGCGGTGGCGGCCGAGGTACAACGCATGAGTCCCGGGAAGCATGTGGTAACAACGC

Table 1

AGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAG  
AGTCCCGGGAAGCAGTGGTAACAACGCAGAGGCTTTCAGCACAGCCAGGGTGCCCGGGA  
CTGAAAACTCCTTCACCAGCCCCCTCCACAGGATATAGAAGACTTAGATCACTACGAGAT  
GAAAGCAGAGCCCATAGTGGGAAAAAGTTGGAGGATGAAGGAATTGAAAAAAAAAAAAA  
AAAAAANGTNCCTGCCCG

Sequence 365

TGACTCCCGCGGTGGCGGCCGAGGTACCAAGCACTGGGTAAGGCACTTTTGTGGAGCAT  
TAGACAGTAACCCTCAAGGAGCTAGAGAACCGGATGGGAGACATGAGCGGTAATTAACCT  
ACTTGTTCCTCCAGAGTTTCTATTTGTTTTNTTTTCTTTTCTGTGACTTATTTTCTATT  
TTCTTTCCTCCATGTAATTTTCACTATGGCCCACTAATAAACACCTGGAAATTACA

A

GGAAAAAAATTCTTCCTCTAATAACTTTCCAAATTTGTGGAATATTTATTTGTAATAGC  
AGTTATCAAGTTATGCTTATATAAGCATTAAAAATTCCTCCTTTGACTACACACACA

A

CCACAGTGTGGTTCTAATCNATGGGAGATATCAAGTAATTTTTTAGTAACCTGAATTTT

G

AGGGACATTTCTCTGTTTAAGCATGTATGCAAACTGATATGTAATCCTGANGGTCCCAAG  
TCAATTTTTTTCTT

Sequence 366

CTCCCCGCGGTGGCGGCCGAGGTACTTTGCATCCTTCAACCCAATCAAGCTGACACTCAG  
TATTAACCATCACAAAGGCGTGAGGACAGATAGCTGCATCCGCAAAATAGAGAACCAAGAA  
ATAGTCCCACACCAAAGTCAGGATCAATGATTCTTGACAAAGCCACCAAGTCAATTCAA  
CTGAGAGAAAAGAAGCCTTTGCACCAGTTGGTGCTGGAAGTTCTGGATATGCACCTGGATA  
AGTGAACCCCTCCGTCAACACACACAAACGTTAATTTGAGATGGATTGCAAAACATAAA  
AGCTAAACCATTAACACTTCTTGAAGGTAACATAGAATATTTTGTATGTTATGATAG

G

CAAAAGTCTCTTAGGACACACAAAAAATTAACCATAAAAGAAGAAAATGGCTGGGTGCA  
GTGGCTCACACCTTTAACACCAGCATGTTGGGAG

Sequence 367

CTCCCCGCGGTGGCGGCCGAGGTACATTGTGATTCAAGAGAAAAGTCACATGCAGGTCTG  
AGCTCCTCCAGCAGGCCCTTATGTAATGCTAAGATTTTTGGGGAAGATGAAGTTGAAGTGA  
TGAAGTGGCTGAATGAAGTGCATGACAAGTCTCAGTCCAGGATTACAGCAC  
TGAGGGGCTATGGAAGCAGCAGTCTGAACCTCGGGTTCTGCAAGAGGACATCTTACTCAG  
GAAACAAAATGTAGATCAGGCTTTACTAAATGGTTTGAAGTCTTAAACAAACACAGG  
TGATGAAGTTTAAATAATTCAAGATAAATTGGAAGCCATTAAAGCAAGGTAAGTCCAGAT  
ACCGAATTGAGCATACCACAAAAAAGTTCTCATTTTGTGTCCTCCCATNCCATTCTCCT

C

ACTAACCAAAG

Sequence 368

CTCCCCGCGGTGGCGGCCGCGGGCTGGTACAATGTGCCTGGCACCTTACAAGACACAAAT  
ATGCTCTTATAGGCTGGGGAAATAAGAAAATATGAATGAAGCAACCCAGGTCTTGAGCCA  
AAGAATTACCTGGGGTCCGTTGAGTTCAAATCTGAAAATTTCTGTCTTTCAAGGTCAGCA  
TCGCCACAAAC

Sequence 369

CTCCCCGCGGTGGCGGCCGCGGGCTGGTACGCGGGGGTTTCCGGTTTGGGTGTGGCCG  
CATGGCGTGCTGGGGTGCAGGTGGCCGAAGGGGGCGTTACTGTTGCGACTGGCATCCGCA  
TCCGGCAGATGTAGATGGAACCAAAGCCAGAAGTTACGCGTCACCCTTGCTCTACAGCCA  
AACATGCAGGACTCTAGTAACCCGCGAAATGATGGGATAGCGTTGCAATCCTTAAAGA  
GTCTTAACGGAGAAGGAAAAATGTTACATTGTCAAAGTCCCAAAGCCTTTCAGCCTGAAG  
CCAGGAACAATTGTTCAAAGTTTCTTTGGAACATCAAGGAAGGAAATCCAGATTTTACTT

Table 1

TAAGTGAATGGGGGAGTCATTAAGGATTTTGTGTAGATACAGCAAAAAGACAACAATCT  
TCAAGCCACAATGGCCCTCACCAGAACCCAGC

Sequence 370

CCCGCGGTGGCGGCCGAGGTACTTAAACCAATAAAAAGTGACATTTGAATTTCTTTTAA  
AAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGCTACCAGCAGAAACCA  
GGACAGCCTCCTAAGCTGCTCATTTACTGGGCATCTACCCGGAATCCGGGGTCCCTGAC  
CGATTCAGTGGCAGCGGGTCTGG

Sequence 371

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACGATTATTTTCAAACAAGCCTACGTCCCTGA  
CTAACCGAGTGGAAGGTGTGAGTGGCACTACAAATTCACAAAAGAACTGTAGCCTCAGAT  
AATCAAAGGAGAGAAGGTGAGATGCAATCACTGATGCATGCTAGTAATTCTCAAACCTTC  
GTTTTCAGAAACGATTGGATTTTCAGATAGATTTGCAGTAAGAGAATAACAAGTCTTTA  
T  
TTTTTTCATCCCAACTTCTTTCTTGACATTTTTCTTCTAGCTATATTTAATATCTGTT  
TCCCCACACACTTGCTAATCTACATTTCAATCTTCTTCACTTTCACTTTGTCTGCAA  
A  
GGAAATCTACCCTGGGACAGAANAAGCATCTCTTTTTTTTTCCCCCTGACCCTTGGCA  
TT  
TTCCTCTCCCTTCAACTT

Sequence 372

GATTGAGCTCCCGNNCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGATGTCTCTTGTC  
AGCTGTCTTTCAGAAGACCTGGTGGGGCAAGTCCGTGGGCATCATGTTGACCGAGCTGGA  
GAAAGCCTTGAAGTCTATCATCGACGTCTACCACAAGTACAAGAGATAGAAAGACCACTC  
CTTGCTGAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTA  
A  
GTCAACTTCAATGTCGGATGGATGAAACCCANACACATAGCAATTCAGGAAATTTGACTT  
TCCATTC

Sequence 373

CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGAAGGAATGGAAACGCCTGGAGAAAGAG  
GATGAAATGACGGATGAAGCAGTTGGAGACTCTGCTGAGAAGCCTCCTTCTACTTTTGCC  
TCACCTGAGACTGCTCCAGAAGTGGAGACCAGCAGAACTCCACAGCCTGTGAAACCACG  
AACCCTTCAATCAAGAAAAGACCTTTGATCAGGAGAAGACTTCTCGTCTCATTTCTGGGG  
ACACATTCAGGATTTCTCCAAAGCAGGTGAAGGTACCTGCCCG

Sequence 374

TCCCGCGGTGGCGGCCGAGGTACGCGCCAGTCACTAGCAGGTCTTGTGAATCTCCTCAC  
GGAGGCACTTGCGAGAGTTAATGGGCAGATGGAAGGAGATGGCAAGGACCAATCTGGGGC  
CGAGCAGGAACAAAAGCAGCAACGCTAACGGAAAAGGCCGCCCGGGCTGGTGGGCCAG  
ACAAACCAGACATGGTGCTCCCCGCGTACTCCTTATACTTATTAAACACAAAATTAATTG  
TAAATAGCCTCAGGCAGGTCTTCAGGAGGTATCCAGAAGAAGGCATTGTGATCATAGG  
AGCTGATGGCTCCGCCTGGGTTACTGCCCCTGTAGACTTCCAGTGGGACAGGATTGGGAG  
GTGGGAAGGACAGTGACATGGATGATCCCGGACCCTTTGTAGGTCTAGGCTAACGTGGTG  
TGNTTTGNGTCNTTAGCTTTTTAACCAAAAAAGTTTAAAAAAGGTTAAANNANCNT  
N

TNNNNNNNNNNNTNNAANNNGGGTNCCTTGCCCGGG

Sequence 375

TCCCGCGGTGGCGGCCGAGGTACCTCAGCTGTTGATCTGTGGAGCCTAGGAATCATTTTA  
CTGGAAATGTTCTCAGGAATGAACTGAAACATACAGTCAGATCTCAGGAATGGAAGGCA  
AACAGTTCTGCTATTATTGATCACATATTTGCCAGTAAAGCAGTGGTGAATGCCGCAATT  
CCAGCCTATCACCTAAGAGACCTTATCAAAAGCATGCTTCATGATGATCCAAGCAGAAGA  
ATTCCTGCTGAAATGGCATTGTGCAGCCCATTCTTTAGCATTCTTTTGCCCTCATAT

Table 1

T  
GAAGATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAATGTGCTGGATGATGAT  
TATCTTGAGAATGAAGAGGAATATGAAGATTGTTGTTAGAAGATGTAAAGAGGGAGGTG  
TCAAAAATATGGACCAGGTGGTATCTCTACTTTGTTCCAAAG  
Sequence 376  
GGTCACAGGTCTCGAAAAAGCGGGTGGTGCAATGCTCCATGGGGATGAGGGGAGCACCCGC  
AGTGGAGCCAGCTCGGTGTGGGAGAGGTACCTCTAAGGTGTTCTTCCTACCTAGCCTAGT  
TTTTTCTACCAACCTAGTTCACCTAGTTTCCTGCCTAACCTCGTTAGATATCACTCTT  
C  
GCTGCTTCAAGAATACTAAAGCAACACTCCTGATATTAACCTACTACTCAGTTTTTGTG  
T  
GGCAAAAACAGNAGATCACATCCCATTTGTCTTTTGN GTTCTCTTGGCTGNTTAAGCANC  
AANAGTTTAGCACTTAATTCATTGCTCTACCAAATGGTTTAGTTTGAAATAGGGGTG  
G  
ANGTGGACAAGAAGNTTTTGN TTTAATCCCTTCAAAGCCAATTNAACTTGGTTTTTGGT  
T  
TTAGGTNGAGGAAGGGCCANGNANTNGTTCAAAGGTAGGCCTCAATGNAACCGTTTACCC  
CCCN  
Sequence 377  
GCGGTGGCGGCCGGACGGAGGAGACGGTGCTGTGCTGTGTATGAAGACGGCAGTGAATGA  
CTCTGCCAACAGAGGCCATGTGGAAGTGTTACATCACCTTTTGCTTGGAAGATTTACTA  
AGAAGTCAAATAGTGGGTTCCTTAGAGGGAAGAGGTTGGAAAGAACCATGACTGTATTCA  
GGAAGGCACATGAAGCTTCTGTCAGAATGCCAATACAAGCAGTTGAGTGTTTCGT  
TGCTGTGTTATAAC  
T  
Sequence 378  
TCCGCCCCGGGCAGGTACCAGGTGGTGAAACCAACTGCTGAACGCACAGCCTACCTCCTGT  
ATTACCGCCGAGTGGACCTGCTGTAAACCCTGTGTGCCGCTGNTGTGTGCGCCCAGTTGC  
CCGCTTNGTAGGACACCACCTCACACTCACTTCCCGNCTCTCTTAGTTGGCNCCTTAGA  
GAGAACTCTTTCTCCCTTTGCAAAAATGGGCTAGAATGAAAAGGAGTATGCCNTTGGGG  
TTCGTGCACAACACAGCTTCCTGATTGACTCTAACTTTCCAAATCAAAATTCATTGGT  
T  
GAAACANGACTTGTGTTGCTTGGATTTTAGNAAAATACACAAAAACCCCATATTNCTGAA  
ACAAATTGCTTGANTCCTGGAGATNAAGGAAAGNTGGGATTTNGATTCCCCAAGTCCTCA  
TTGCTTAAGTAGGAATAAAATCCTTGACCCATGCNAACAACCAACTTNGTAAATTTNGG  
TGAAAAANTGAAAATTTTAANTCTTNTCCTTTAAAAAAAAGAAAA  
Sequence 379  
GAGGGACTGCTAGCCAGCCAATAAAATATAAACTCCATTTGTCTTAGTTATATAGAACTG  
TGTTTCCAGCTTAGAAAAAGTCAAACCAATGACTTNTAGAACAANCTACTCTCATTTTT  
T  
ATTCAGCCTCTAGAACATGGAAGCTTTAAAAGTGAATTGGCTAAANAGGCAAGACCTTCT  
GAAAGTTAACATCTTAATGATTA AAAACAGTAAGTACGCACAACCGAAGCCGTAGAGTCA  
CACTTGCAACAAAAGGTTACAANTATTGCTAATGGGGCTCTGTCCGGTNTGCTTGTCCA  
GCTGGACCATCTATTTTCATCCCTCCTCCTTGTGAGCTGTCAATTTAATTGC  
Sequence 380  
NCCGAGGTACGTTAGCTCATTTTCCCTTAAGCGGGTGTGACGTACGNTGAAATTGCAAA  
CGCTCAAACCTCCAACACTTGCGTATACACTTGTAACCCAGCTTTGNNAAGTGAGACAC  
GCATCAAAATCATGATGAACAATTGACCGGCTGCNTNGCAGTCAAGCAGTTGGGTTA  
Sequence 381  
CCGCGGTGGCGGCCGAGGTACACCATGTGAAGACTGGACTTAACAGCTACACCACCAGA  
AGCCGAGAGAGAGGCTGGAACATAGCCTTCCCTTTGGAGGTAGCCTGGCCCGNGGGCAC

Table 1

TGTGATCTCAGACTTCCAGCCTTCAGAACTGTGAGACAATATTTTATTGTTTAAGCCAC  
T  
TATTTTTTGGTACCTGCCCCG  
Sequence 382  
NGGCGGCCGAGGTACTTTTTTTTTNTNTNTTTTTTTTTTGGAGACGGAGTTTCACTCTTG  
T  
GGCCCAGGCTGGAGTGCAACGACACGATCTCAGCTCACTGCAGGGCTNTGCCTCCTAGGT  
TCAAGCTATTCTCCCTCCTCAGCCTCCCAAGTAGCTGGGATCACAGGCATGCACCACCAC  
CNCCCNGGCAAATGTTTTTTTTGGATGTTTAAGNCNGACGTGGAGTTTCTCCATGTTGGC  
CAAGGCTGGTCTCAAACCTCCCTGACCTCAAGGGNGATCCACCNTGTCTCAGCCTTCCAAA  
GNGCNTGGGATTTATAGGCNATGGAACCAATNAACGCCCGGGCCGGCAATAAATTTGTT  
ATACANNACTACCATGNAGTTAAATCTGCNANTANNATTGGGACCGAATGGTNTAATCCC  
TTCNTACTTCTTTAAATTNTTCCCAANNNGACCTTCAATTAATAATAATAAAATTTNGGA  
TCCTNTTTTTTTAAATGA  
Sequence 383  
CTGCCGAGGTACTCACAGTCACNCAAATTCNGNNGGTGGNTACACGGCTCTCCATTCTTC  
TTCTTGGCTTTACAGGTTCCCAGGNCAAGAGCTTTACCCATAATTAAGNGNNTTCTGAGG  
ATNATCCGNTACATAAACNACACCTCCTCTNGAACCATCCTTGGGGCTTCATGGGGGT  
GGGCATTTNAGGNATCCCTTACNAACAAGNCCCCCNTGGTGNCGGNCTTTCCAGAAGCG  
GCCTTTGGTGNAACCTTCNTCCCCAAAATAAANAACCAAGGGACAACAACATTTGNGGT  
CANNNGGTNACCGAAANGAATCAATTTCAATTTTCCAATATGCNTCGAAAGGGGTTTTTC  
CCACTTATTNCACACCTTCTTGNGGGCCNNGAACCTTTCTTTCAAATATTAANCCCC  
NC  
AAAATTGGTCACCCCCAAATCCTAATTTCTTTCCAAACCTTTCTTCTTCTTGGCCCAT  
C  
TTTTTCCCTTTTGAANCCTGGAAGAACAAGGTCTTGGAATCCAANTTTTTTCCGGGGN  
CN  
NCTCCTAAAAAACTAANNNGGAATNCCCCCCCCGGGCTGCAAGGGGAAATTTCCNNTA  
NTCAAAAGCTTTAATCTNATTACCCCNCTCCAACCTTCCAAAGG  
Sequence 384  
AGACTGCAGGAGATGTGGGCGGTGCCAAAGAGATGGATGAGACTGTTGCTGAGTTCATCA  
AGAGGACCATCTTGAAAATCCCCATGAATGAAGTACAAACAATCCTGAAGGCCTGGGATT  
TTTTGTCTGAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGTAGTTC  
AGCACTTGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTTAG  
ACATCATTTATATGCAATTTATCAGCACCAGAAAGTTTGGGATGTTTTTCAGATGAGT  
A  
AAGGACCAGGTGAAGATGTTTGACCTTTTTGATATGAAACAATTTAAAA  
Sequence 385  
GTACTCCGTCTCAGAGGANGGGATGCAAATCTTCGTGAAGACACTCACTGGCAAGACCAT  
CACCCTTGAGGTGCGAGCCAGTGACACTATCGAGAACGTCAAAGCAAAGATCCAAGACAA  
GGAAGGCATTCTCCTGACCAGCANGAGNGTTGATCTTTGCCGNGAAAAGCACGCTGNGA  
AAGATGGGNGCCGCCACCCTGTGCTTGNACNTANCAACAATCCCATGAAAGGAGGTCTAC  
NCCTGGCACCTTGG  
Sequence 386  
CTTTTGAAGGCCCCGNTCGCCCCGGGCAGGTACTCCCTGATAAAGGGGAATTTCCATGCCG  
TCTACAGGGATGACCTGAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAA  
AGGGTGCAGACGTCTGGTTCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCA  
GGAGTCTCTATTCTGGTGATAAAGATGGGCGGTGGCAGCCACAAAAAAGCCATGAAGA  
AAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCCCTGGACATGTACTCT  
CAGAATGTTGTATATGCTTCTTGCAATGCATATTTTTTAATCTCAAACGTTTCAATAA



Table 1

AACCATTTTTAGATATAAAGAGAATTACTTCAAATTNGAGTAATTCAGAAAAAAGTCA  
A  
GAATTTAAGTTAAAAAGTGGTTTGGACTTGGGAACAGGACTTTTATACCTCTTTTACTG  
T  
ACAAGTACCTCGGCCCGCTCTAGAAGTAGTG  
Sequence 387  
TCCTGTATTGCCTTTTTAATCTTGCTTGTTTAAGNACNTTTCAGGGATTGTCATCATTG  
A  
TCATCTGTAAAATTGTCAAGNACTAAGGTCCTAAACCTTAATC  
Sequence 388  
CCTTCCCNCCNCGCAGNCCGCGNGGGGAGATAAAAATATCACCAACATAATATANCACGG  
ACTAACCCTTAAACCTTCTGCNTAATGAATTAACNAGAAATANGGGGGCAAGGAGNGCC  
ANAGCTAANACCCCTNAACCAGACGAGCTACNTAAGAACAGGTA  
Sequence 389  
CACGCCTGTAATCTCAGCACTTTGGGAGGCTGAAGCNGGGCCGGATCACGAGGTCAGGAG  
TTTCAGACCACCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAANNNGG  
GTGTGGTGGCGGGCACCTGTAATCCAGCTACTTGGGAGGCTGAGGNGAAGAATCGTTTG  
AACCTGGAGGCAGAGGTTGCAGCGAGCCAAGATCACGCCATTGCACTCCAGCCTGGGTGA  
CAGGGCAAGACTCTGTCTCCAAAAAAGAAAAAGGAAAAAGCCTTTCTTGATGCTG  
TTCCCATTTCTCCACTAAAACGCCTGCTTTTCTTAAGTCCACACCGAACCAACCTGA  
AA  
TATTTTGGCNAGAATGCCAACAAGAATTGAAAGAAAAGATGCTTTACAAAAATAACAATA  
TAAAAAGCAAATTATATTATCCCTTTTATCTCCATTCTTACATTAATAAAAAAAAAAATCG  
GCCGCTCTAGAAGTAGTGGGATCCCCCGGGCTGCAGGGAATTCGATATCAAAGCTTAT  
CGATACCCGTCCGACCTCGAGGGGGGGCCCCGGTACCCAGCTTTTTGGTCC  
Sequence 390  
AGTACNCGGGGCTTTTCTCAGGCGGNGGCATGGCGGGACAGGAGGATCCGGTGCANCGGN  
AGATTCACAGGACTGGGCTAACCAGGAGTCGGCCGCTCTAGGGGN  
Sequence 391  
CGCCGAGGTACGCGGGATGGGATTTCTGACCATTGCGCTGCTCTTGCAAAATAGGTCT  
AATGGCAGGATGGTGTGATAATTAAGGCTACCAAGACTGCCATTGTTCCAGGCTGGGCA  
GTTGATAATGGGGGCAGACAATAGTGCAAAAAATTTTACATTTTATCTTTAGAGTGTG  
A  
GGGTCAAATTGATTTCCATGGTTGAGGATGTAGCCAAGTGTGGAATCAGGTGGAATAGGT  
GGAGAGTTGCCCATAGTGGTTTGGAAAAGAGAAGAGGACTTTGAAAAGTGGAGGGCTCAT  
TAGGTGACCCAAATTTTACCTGGGGCATCCCCCTTTAGGGCCCCAACCTAGTCTGTGAG  
ACATCTCTGACCTTAGATGGGTGCTGGCACCCTTTGGAATGGTTCCTCCATCACTGAG  
GACCTGACTTAAAGTTTTTCTATCTCACTTAAACAACCCTTTAACGCTCTCAACTTAG  
G  
CAATAATAAATTCCTTTTCATGAATTCCTTCA  
Sequence 392  
AGCGCGGGGAGAGGCCGGTTTGCAGTATTGGGCGCTCTTCCGCTTTCTCGCTCACTTGA  
CTCGCTGCGCTCGGGTCGTTCCGGCCTGCCGGCCGAGNCGGTNATTCAGCTTCACTCAAAA  
GGGCGGTAATTACCGGTTTATTCCACCAGGAATCAAGGNNGGATAAACGCAGGGAAAAAGA  
ACATGTNTAGTCAAAANAGGCCAAGCNAAAGGCCAAGGNAACCCGTTAAAAAAGGCCCCG  
CGTTGCTTGGCGGTTTTTTCATAAGGGCTCC  
Sequence 393  
NATTGGAGCTCCCCGCGGTGGCGGCGCGCCCGGGCAGGTACAGGACACAGGCACTCCTTTG  
TCTGGTAGAGAGGAGGAGGGGAAATGGAGCTATTCCAGGATACAAGGGATGGCACTGAGG  
GATGCATAAGTCCCTGCCTCCCTTGTCTCAACATGTTCTCCTCTGCCAGCCAGTCAGC

Table 1

TTGGGGAGCTAGGTATCAGAAACCTGAAGGATCCAGCCCGCTTTGTCCTACTAGTGTCTA  
TAAGTCTCTGCTCTGAGATCCTGGGGCTCCTCCTATTTCTAGAAGGGATGAGGTGCCATC  
AAAAATAACTTGGCTGGTGTAAACAGTTTAGAGAAGGAAGTCACACCTGTAGCCTGGCTGG  
CAGGCAGGTGGACATGAGGCTGAGAAGGGAAGCCAGATGTCAGAACATACTAGGCTAGCA  
TGCCTG

C

Sequence 394

GTGGCGGCCGAGGTACCAGGCTGGCGACAGGTGCTACCAGGAGTGGGCTGAGGGGAGAAA  
AACTATCTCCCACTCTTTTGGCCCAGGCAATGTCAACGACTTCCACATTCCTGGCCAC  
TTGCTGAGCAACCCCAGGTTGGGCTCTGTATAAGGACCCTCCCTNCCAACCCCAACCC  
AGAGTGCAGTGCAAATCAACCAACAATTTACTGGTGGAAATGGCAATCAAAGGAAACAGTT  
AAACACCAACAATTNCTTAAAGCCAAAAAATATTTTTCATGGAGTTGAACATTTTTCG

A

GTGTGTTTTTTTCAAGTGTAAGCAGTGACATTTTGTTCAAACAGAAGCAGCATCTAGG  
AATTCTGGCACTTGGGGTTCTAAGGGGGTTACAGGTATGCCATCATGGATTCTTCTCC

C

Sequence 395

NGGGGCCGGGCCCCCGNGGGGTTANCCTTTCCATTTTNNANCAACCTTTTAAAAGCCCT  
TGGGGAGGGNGGGGTTAANGGGGAATCCCTTTNAAAATTTTAAATNTTAAAAAGGG  
CCCCCATTAAGNAATTTCCCAAGGTTTTTNAAGCCTTTTAAACCCCTNAAGNACCAGG  
GNAAAAAGGTNGGAAAAAGGGCCANTTTTTTACCAAAGGGNGGGGGGAGNGGAAGGG  
CCAAANTGGGAAGGAAAAATTAAANGGGCAAAACCAAGGAATTANATTACCGTTCCAAA  
AAAGCNTGGGGAACCAAGGGGGGCAGGAAAATTCAGNAAACCGTTGGTCCTTGGGCCT  
TATTCAGCCTTTTTTGGTTTTTTTTTGACCTTACCTTAAAAGGGCCCCAAACCCCTT

T

TTTTAATTTCCCTCCTTGGGAATNGGGGTTCTTGCCCAAGNACCCCAAAAGGTTTCCAA  
GGGAAAATTTTTAAGGGGCCCAAAAAAGGGGAATTTTCCCCCAAAAATNGGGGNATT  
CCCCCTTAATTAACCAATTCTTTCNAAAGGAAAAGGGAATTANCCAAGGGGGTTTTGGG  
AAGGNAAAAGGGAAAAANGGCCCCNNCCAAGNAAAGGGGNCCTTTTGGGTGGGAATTGGG  
AAAACCCCAAAAAAAGGAAAAATTCNTTTTTTAAAAAAGGGAAAAANGGGGGGTTN  
TTNCCTTTCNAAAAAATTGGCCCAATTTNGGTTCCCAAGGNTAAGGNAATTTTTTG

G

GGGTTNAAAACCTTTGGGGGCCAANGGGGGGAAAAAAACCCTTTTGGGTTCCTTTGGG  
GGGNAAAG

Sequence 396

TGGGGGCCGGGCCCCGAANGGTTACCCCGCGGGGGGGAGGCCTTTTNTNCCCTTG  
GGCCAGGGTNTTNCNTTCCCAAGNCAANGGAAACCCCTTTCTTTNCTTTGGGTTT  
TTTGAAAAAANGGAATGGGTTCCCGGCTTGGCNTTTTTTGGGGTTANGGGCCACCGC  
TTCAAGTTCTTGAAATGGTTCCCGGCNCATGCTTCCCGGGGGCCCGGCTTCNTAAGNA  
AACCTAAGTGGGGAATCCCCGGGGGCTTGCAAGGGGAAATCCGATAATCAAAAGCTTA  
ATCCGGATAACCCCGGTCCGAACCCCTCGGAAAGGGGGGGGGGGGGGGCCCCNNGGGGTAC  
CCCCAAGCTTTTTTTGGTTTTTCCCTTTTAAAGTNGGANGGGGGGTTTTNAAAATTT

T

GGCCCGGCCGCTTTTGGGGCCGGTTAAATCCAATTGGGGGTTCAANTAAGGGCCTTG  
GGTTNTTCCCTTGGTGGGTGGGNAAAAATTTGGGTNTTAANTTCCCGGCNTTCCAA  
CCAAAANTTTNCCCAACCAACCAAAACCCAATTTANCCGAAAGGCCCCNNGGGGGNAA  
GGCCCAANTTAAAAAAGGGTTGGGTAAAAAAGGGCCCCCTTGGGGGGGGGGGTTGG  
GCCCCNTNAAAATTTGGGAAAGGGTTGGGAAAGNCCCTTTAAAAACCCTTTCCAAAC  
CAAATTTTTTAAAAAANTTTTNGGCCCGGTTTTTTTGACCCGGCCCTTTTCNAACCCT

TT

GGGGCCCCCCCCGGGCCTTTTTTTTTCCCCCAAAAGGGTTNCCGGGGGGGGGGNAAAAA

Table 1

AA

Sequence 397

GTGGGGGGCCGGGGCCCGGGAGGGGTACCCCGCCGGGGNGGCCTTTNTTTCCTTTGGCC  
AGGTTNTCTTCCNAACAAGGGGAACCCCTTNTTTCNTTGGGTATTTGGAAAAAGGAAT  
GGGTTGNGGGCCTGGCTTTNTTGGGGTATAGGGGCACCGCCTCAAGTCCTGGAAATGGGTC  
CCCGCCAATGGNGTGGCCNGGCCCCGCATCTTANGGAAACCTANGTGGGGAATCCCCCCC  
GGGGGCTTGCAAAGGGAAATTCNGAATATTCAAAAGCTTAATCGGAATNACCCCGGTCC  
GNACCCCTCNGGAGGGGGGGGGGGGGCCCCCGGGGTAACCCCAANCNTTTTTTTTGGTTTC  
CCCCTTTTAAAGTNGGAAGGGGGGTTTTAAATTTGGGCCNGCCCGCCTTTTGGGGCCG  
GTTAAATTCATTNNGGGTTCCAATAAAGGCCTTGGTTTTTCCCCTTGGGTGGGTTGG  
AAAAAATTTNGGNGTNATTNCCCGCCTTCAACCAAAANTTTGCCCAACCCAACCAA  
AANCNCAATTTAACCCGGNAANGNCCCCCGGGGGGGGAAAGGCCCAATTTAAAAAANGG  
TTGGGTNNAAAAAANGNCCCCCTTGGGGGGGGGGTNGGCCCTTNAAAAAATNGGGA  
AAGGGTTGGGGAANGGCCCTTTAAAAACCTTTCAAACCCAANTTTTTAAANTTTTTGG  
GCCCGGTTTTTGGNCCCGNCCNTTTCNAACCCCTTTGGGCCCCCCCCGGGCNTTTTTNT  
NCCCCAAANGTTTCTGGGGGGGGGAAAAAA

Sequence 398

GCGGCCGGGTACAAATTTAGAGGTTTCCCCTTTATCAACAAGAGACCCAGGTGCCAGCA  
TGTTACTACCAGATCCAGTTCTTCTTAGGACAGTGTGGCTCAAAGGGATGAGACCTTCCA  
GACACTGGTATCTGAGCATCTGTGGCCTGCCCTGAGTTGTCAAGATAATTTCTTATCTC  
TGAAGGAGTCCAGACAGGAATGCTTCCACTGCTGGGTGGGTGCTCGCCCTCTTGCTCCT  
TAAGCGCCCGGCTCACCCCTTGCTAGCACAGGGTGTCTTACACAGTTTATGGGACTTTT  
CTGTGAACCTACCTGAGGGCAAGAACCATGTNCCACTCCCTGCTTGCTCCTCAAATATTT

A

Sequence 399

CNGCCGAGGTACNCGGGGAGAGAGGAAAAGAACACAGATCTCGCATGGTTCAGATTTTTT  
TTTTAGGTCCAGGAGTAAGATATATCATACNGAAAATGAAAATTATAATTCTTCTTGG

A

TTCTGGGAGCCACATTGTCAGCCCCACTTATCCCACAGCGTCTCATGTCTGCCAGCAAT  
AGCAATTGAGCTTACTTCTTAATCTTTAATAATGGGTCAACTTTTGCCACTACAACTT

C

AGGGGCCCACTTAATTCATGGANTCCACCTTTCTCTGGGAATTTTACAACAGCAGCAGCA  
GGCTCAAATTCAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCCTGGAA  
CTGCTCCCAAAATCAGAATACCCCTTAACCAGGGAAGAGGCCAGTTTGGNCCCAAAGGGA  
GCCCCAAGGCAAGGGCCAAGGTTNGAATCCCNTTAACNGNNTTTAAAAACAACCCGCCTT  
TAAGAACACAAACCCAGNCCCCCANGACACCGTTGAATGCCCTTATTGTTATTTCTTC  
CC

Sequence 400

GACAGACAGTGCTTGATGTTTATAAAAAATACAATGCCCTGGTAATGTCTGCATTCAACA  
ATGACGCTGGCTTTGTGGCTGCTCTTGATAAGGCTTGTGGTCGCTTCATAAACAACAACG  
CGGTTACCAAGATGGCCCAATCATCCAGTAAATCCCCTGAGTTGCTGGCTCGATACTGTG  
ACTCCTTGTTGAAGAAAAGTTCCAAGAACCCAGAGGAGGCAAGAACTAGAAGACACACTC  
AATCAAGTGATGGTTGTCTTCAAGTACCTGCCCGGGCGGTGCGAGCGGCNCGCCCGGGCAG  
GTACGCGGGGGCTAACCAGGCCAGTGACAGAAATGGATTGAAATACCAAGTGTGTGAAGC  
TGAATGATGGTCACTTCATGCCTGTCTGGGATTTGGCACCTATGCGCCTGCAGAGGTTT  
CTAAAAAG

Sequence 401

CGGTGGCGGCCGGTTGCCTTGATGTACGAGCAATTAGGAGAGTCACGAGGATGAAATA  
GATGAACCCGACCATGCAGTTAATCACCAACATCAACTACTAGCCAGACGGGATGAACCA

Table 1

CAGCGTCACACAATACAGTGTTCTGTTGTAAGTGTAACAACACACTGCAGCTGGTAGTA  
GAAGCCTCACGGGATACTCTGCGACAACACAGCAGCTGTTTATGGACTCACTAGGATTT  
GTGTGTCTCGTGGTGTGCAACTGCAAACAGTAACCTGCTATGGCCAATTGTGAAGAGAT  
GGGAGTCTCCCCGTATTGCCAGGCCGGTCTCAAACCTCTGGGCTCAAGCAATCTTCCCC  
GCCCACCTTCCCGAAGCCCTAGGATTACGGGAGTGAGCCACCGCACCCAGCCAGAAAAACG  
TTTAAAAATTTGGAAAACCTTACTTTTTTTAATGAGCATTTTTGCATCAAGGGGGTTAC

A

GGGACATTAGGCTTTTTTTTTT

Sequence 402

ATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACATATCCTCTGTGGGAAAAA  
CTGCTCTCAGAGTGTGCACTCTCCCCACAAGCCAGCGCTCAAACCTGGAAAAAGTATCTCA  
ATGTCTGAATGTGGGAAAACCTTTAGCCGAAGTTCTTATCTTGTTCGGCATCAAAGAAT  
CCACACAGGCGAGAAGCCTCACAAGTGCACTGAGTGCGGGAAGGGCTTTAGTGAGCGCTC  
CAACCTCACTGCCACCTACGAACACACAGGGGAGAGGGCCCTATCAGTGTGGGCAATG  
TGGGAAAAGCTTCAACCAGAGTTCAGCCTCATTGTCCACCAGAGGACCCATACCGGGGA  
AAAGCCTTACCAGTGCATTGTCTGTGAAAGAGATTCAACAACAGTTCCAGTTCAGTGC  
TCACCGGC

Sequence 403

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATTAAGTATTAATGAGGATTGAA  
CTGGGGCAAACAGGTTATTGTGAAAACAGTCAATATGTAAGCTCCTCAAGGGAAATCAA  
CTACTGTTCTCAAGATTAGAAGATGTNCACACTCTTGCATTACCTCCCTAAAGGAGGA  
AACACCCATTAATTTCCCTTATGGAATCAATATGGAGTGGAATATGAAATGAGGAGAT  
GTTTTAGAAAAGCAGGACANATCTACCTACCATTACTGGAATTAATATGATCCTCTGGGC  
CCACTCCATTGATTCCGATCTGAGGTGAGGAGGACTAAAAGCAGCAGCAGGTTACAGAAA  
GACTGAATAAGATGAAAGTATGCTACGTATGTCTAGCTGGGGAAGGGGGGATCTGAAAA

A

Sequence 404

CCGCCCCGGGCAGGTACGGACGCCAGGGATCCGCGCCGAAGCTAGCACGCANCCTACCCA  
ACAGTCTACACAGCNCGACCAAAGCCCCCGCGTACCCAGAGGAGTCGCTGGTGATNGGGG  
AGCTCAACCCTGTTNAGTAGCTCTGCTCATCAAGTGTCTGGAGAAGGAGGTTGCGGCATT  
GTGCAGATACACACCCCGNAGGAACATCCCTCCTTATTTGTGGCTTTGGTGCCACAGGA  
AGAAGAGTTGGATTGACCAGGAAAATTNAGGTGACTTCTCCANGGCTTCCAGCTTGGTC  
TTTTT

Sequence 405

CCGCGGTGGCGGCCGAGGTACGCGGGGGGCGGCGGCGGAGAGAGCTGGCTCAGGGCGTCC  
GCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCATAAGGCTTTGCCTTTCCA  
ACTTCAGCTACAGTGTTAGCTAAGTTTGAAAAGAAGGAAAAAAGAAAATCCCTGGGCCCC  
TTTTCTTTTGTCTTTGCCAAAGTCGTCGTTGTAGTCTTTTGTCCCAAGGCTGTTGTGT

T

TTTAGAGGTGCTATCTCCAGTTCCTTGCACTCCTGTTAACAAGCACCTCAGCGAGAGCAG  
CAGCAGCGATAGCAGCCGCAGAAGAGCCAGCGGGGTCGCTAGTGTCATGACCAGGGCGG  
GAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGCCGACTACCTGACCTCTGCAA  
AATTCTTCTCTACCTTGGTCATTCTCTCTCTACTTGGGGAGATCGGATGTGGCACTT

TG

CGGGGTNTGTGTTTCTTGGTAAGAACTCNATGGAAACAGGCCTCCTT

Sequence 406

TCCCCGCGGTGGCGGCCGAGGTACAGTTCACAGTGCTTGATGATAATAAATGGTTATTTT  
ACTGGTTCATGTATTTACTATATCATACTTTTTTTTCATTAGAGTGTGCTCCTTCTACTTA  
TGTAATAAAAAAAGTTACCTCAGGGAGGTCCTTCTGAGGTCTTCCAGCACACGGCATTGT  
TATCATAGAAAATGACAGCTCCATGTGTGTTACTGGCCATTACCACCTTCCAGTGGGAAG

Table 1

GATGTGGAGGTGGAAAGCATACTGATGATTTTGTCCCCGTGGAGGCCTAAGCTAATGTGT  
GTGTTTGTGTCTTAGCTTTCAACAAAAAAGTTTAAAAAGCAAAAAAAAAAAAAAAAAA

A

Sequence 407

GTGGCGGCCGGTGTGCTCATCGTAGCCTCGGGTGGGGGATGCGTCTCCGCTTTAGCGCC  
AAGATAGAACTTCCTCAGACCACCGCCGCCGCCCGCGTACCT

Sequence 408

GTACCTCCCTGGCTGAAGTCTCTACATAGCTCTCAGGAACCTTCGAAAGGCATCCAAC  
CTTTTACCAAACCTAAAGTTTTTTCCGATTGATCGCCTCATCTTCAGGAAAACCTTC

C

TCTTCCTTCATATAGTCATGCTTGTGTTATGGTCCCAGCCTACCGCCATGTTTTACAGA

A

GCCCGGGTGGCGGGGGCTCCCGCTACCTGCCCGGGCGGGCGCTCGAGGCAGGTACTGAA  
TGACACATTACCTCCACACTCTCCCGGACTAGG', NGTCAACAGGGCCACAGGGTTGCTTT  
CTGTCTTTGGTGGGGCAGGGGAGTTGACAGGGATGAGGGTCCAAGGAATTAAGCATGGAA  
TGACAAGAAAACANGGGAAGAGTTACCCTGTCACATAGTAGGTTAACTTTTTTAAGGGT  
TTGCAAGTAAGAGNNTTTCGACCTTTCTNCTTGGCTGAGCCANATCNCGGGAACCTTGAG  
AGCTTTTACTGGGATTTCAATNNAAAAAATTAACAACAATGTCAAACCTNGGGTTTGA

T

NATTGGNTTAAAGCCTTTTTAAGATTCTTTTTTAATAACATTTTTCCCCGAAAAAAAAA  
AAAAA

Sequence 409

TTTTNGGGGGGAGTTAAATAAAATAAGCATGTCTNCATCCTTTATTCCTAAACATTTAC

T

TATGACAAATGTAANNACTGACAGAAATTTGAAAAATACCANGACACTTCTTAAATGATT  
TCCCTTGGTTCAAAATTTACCCCTTCTGGGTTTCTNTTGCTTTTCAAGGGTAATNTAA

A

CTCTTCTCTTTTTANGTTTGAACATGCAAGTGCCAAAGGATTCCNCTGTAGTCTTTCC

A

AAGGGGGGGAAAGGGGGTNTATANAAAAAAAAAAAAACACCTT

Sequence 410

GGGCAGGTACTGTGCAGTAGTAACCCATAATTCTAAATGAGGATTATGGATTTTTCTGGA  
AGATTCTTTTTCTGTGGAACATGATGAGAAATGTTTAGGAGAGGGGACATAGCCATTT  
TTGTATGAAGACCAATTCAAGAAAAAATATATGTATGTGTGTGGGTGTATATGTGTGTA  
TATATGTATAT

Sequence 411

GGTACGCGGGGTGCTGGGATNCAGGCACGAGCCAGTGCGCCAGCTGCCTNTGTTNTTT  
TATTAGCTGNTCTGGACTGNGGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGCCA  
CACACTTTNTGAACTGGCCCGGTGAGGGGGGACATANCCATTTCTGTGCCCCCATCAA  
NACCCACCTATTCTGAGNGTNNGCTCCTCCCCTGCTTGAGTNATGGCCACANATCTTGGC  
TCGGNNCTCCTAAGCTGCATGNTGAATTCCTGGGACAACAAGACTGGCTTGTGGTTCCAT  
TCTCCAGATCCTTGGGT

Sequence 412

GCCGGGCAGGTACTTAGAGTTTTCCAAGTATGTTCTAAGCACAGAAGTTTCTAAATGGGG  
CCAAAATTCAGACTTGAGTATGTTCTTTGAATACCTTAAGAAGTTACAATTAGCCGGGCA  
TGGTGGCCCGTGGCGTAGTCCCAGCTACTTGAGAGGCTGAGGCAGGAGAAATCACTTCAA  
CCCAGGAGGTGGAGGTTACAGTGAGCAGAGATCGTGCCACTGCACTCCAGCCTGGGTGAC  
AAGAGAGACTTGTCTCCAAAAAAGTTACACCTAGGTGTGAATTTTGGCACAAAGGAG  
TGACAAACTTATAGTTAAAGCTGAATAACTTCAGTGTGGTATAAAACCGTGGTTTTTA

G

GCTATGTTTGTGATTGCTGAAAAGAATTCTAGTTTACCTCAAATCCTTCTCTTTCCCC

Table 1

A

AATTAAGTGCCTGGCCAGCTGTCATAAATTACATATTCCTTTTGGG

Sequence 413

GCGAGGTACCTAGTCTANATGAGTTTGATGCTTACAGTCAAGGCTATTAGCAAATATTCA  
GGAAAAGTAAAGCCTAAAGAAGAAAAGAGGGAATGAATAGTTTGCTAGAGATAATAAAA  
GGAAGGTGAATTTTTAAAAAGACAAAAATAANGCTAGAAAAGACTGAGTGGAGAAAGCCT  
ACAGAATTTAGAAAAGCTAAAGAAATTGAAAATTAGATTGAATATAGATAGAAATGGGAG  
GACAATGCAGCCAATGAAAGACTGTGGGGACTAATAAAGGGAGAGCCCTGTGGTTTGGAA  
AGTGTCCCTTAATCAGCCTGCAGTGTGCAAAACAGAAACCAGAG

Sequence 414

GGTGGCGGCAGGTACGCGGGATCCAAGATGAATGTGCAGAGAAAATAAAGAATCCAAAGT  
CATAGTCATGAGGACAGAATAAAGACATTTTATGCCTTTTTGTTTTGTTTTGTTTTCTT  
TTTGTGGAGAACAGGGTCTCTCTATATTGCCAGGCAGGTCTTGAACCTCTGGGCTCATA  
CTGTCTCTCTGCTTCTGCCTCCCTAAGAGCTGGGATTACAGATGTGAGCCACCATGCCCG  
GCCAGAATAAAGACATTTTAAACTAAAAAAGAGTTTGTCTTTGCATTAA  
TCTTTTTTTCTTTTTTTCGTTTTTATTTTTTATTTTTTTGAGACGGAGTC  
TCACTGTGCACCCAGGCTGGAGAGCAATGGCATGGTCTCGGCTCACCGCAACCTCTGCC  
TCCTGGGTTCAAGTGATTATCCTGCCTCAGCCTCCTAAAGTAGCTGGGATTACANGTGTG  
AGCCACCACGCTGGCCAGAATAAAGACATTTTAAACTTANGGAAAAAANAANAAN  
NNTNGNNNCNNCCCCCNNAAAAAAAAAAAAAA

Sequence 415

ACCGAAGACGAANGCCACTACATGCCCCGCGTACCTGCCCCGGCGGGCCAAAGGCCAAC  
AAGGNGAGTGGGNCGGGCTGCANGAATTCGATATCAAGCTTATNGATACANGTTGACC  
TCNAG

Sequence 416

CCCCGCGGTGGCGGCCGAGGTACGCGGGGCTGCGGAGGACCGTGGGCACGCCAGGGTCCG  
TGAAGGATCCCAAATGGCTGGGCGAAAACCTGCTCTAAAACCATGACTGGGTAGCTT  
TTGCAGAGATCATACCCAGAACCAAAAGGCCATTGCTAGTTCCTGAAATCCTGGAATG  
AGACCCTCACCTCCAGGTTGGCTGCTTTACCTGAGAATCCACCAGCTATCGACTGGGCTT  
ACTACAAGGCCAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGAGAAGAAATTTAATG  
CGCTGAAGGTTCCCGTGCCAGAGGATAAATATACTGCCAGGTGGATGCCCGAAGAAAA  
GAAGATGTGAAATCTTGCTGCTGAGTGGGGTGTCTCTCTCAAAGGCCAGGATTGTAGAATA  
TGAGAAAGAGATGGGGAAAGATGAAGAATTAATTCCATTTTGATCAGATGACCATTGAG  
GGACTTGAATGAAGCTTTCCAGAAACCAATTAGACAAGAAAAAGTNTTCTATTGGG  
CCTANCCACCCATTGAGAATTATTAATTTGAGTNCAGGANGGAACCTCTGGCCCTTTGT  
ATTACCCATTCTGGGCCTTTAAATATTATTTTCAAAAAAGGAAAAAAAAAAAAAAAAA  
AAG

Sequence 417

GGCGNCCTTTTTTTTTTTTTTTTTTTTTTTGGAGAGGGAGTTTTGCTCTTTTTGCC  
GGGCTGGAGTGCAATGGCACGATCTCGGGTCACTGCCACCTCTGCCTCCTGGGTCAAGT  
GATTCTCCTGCCTTAGCCTCTTGGGTAGCTGGGATTACAGGCGCCACCACCATGCCTGC  
CCAATTTGTATTTTAGTAGAGATGTGGTTTACCATTGTTGGTCAGACTGGTCTNGAA  
C  
TCCTGACCTCAAGTGATCCACCCNCTTGGCCTCCCAAAGTGTGGGATTACAGGTGTAA  
GCCACCGTGCCCGGCCATCAGTTGTATTTNTATATAGTAGCANATGAACAATCAAATGN  
GATTAAANAAAATGCCNTTTTAAAGCCTTAAAAAANTNTTANTGAATAAN  
TTTAANCCAAAGGAGGGGNCAAACCTTTCCNTGGGAAATCCAAACNCNTNTTTGGNA  
NGAATTCAAAGNAGGNTGAAANCCCNCCCCCTTTTNCGGNGTTNANAAAAANANATTT  
TTTANNGGGGGNCCCCNCCCAANNATANTCCNCNGTGGGGGGCCCTCTAAAAANAN

Table 1

TTTTTTTTTTTTNTAAAAAAAAAANNNTNTTTTTTTGGGNG

Sequence 418

CGCGGTGGCGGCCCGAGGTACGCGGGATTTTGAATGAATTCTCAACAAAATGTGCTAGCC  
ACTGGGGACGCAAAACAAGTAAGATCCCTGTTGCAAGAAATTCATTTATNGNGAGGGAG  
GTTGGCATGGAGACTAAAATTCTCAGGAAAATGAGATCCGTGTTAGATTAGAAGTCCTGA  
TGTGAAATGGGAGGACTCAGGAAGGAGGATCGTCTTTACCTGAGGATTTCTAGCCAGAGG  
TCCAGATGCCTGGGCTGAGAACCCAGCGATAAGGGGGCGTTCCCAAAGCAGACACAGGG  
ATAAGAACAGAGGAGGCAGCAGCATTGCACAAGCCCCAGGCACAGTGGCAGTTAGGATGG  
CTGGAGAGTAGGATAGTTCTATGGGTTGCCCAAAAATGTGATGTGCTTCATGTTTTCTC  
TGACTCATGGATCTGGTAGAGACCATAGACATGATATAGGACTAACTTGCCCCATTTTTCA  
CANAGAGGAAACCATCCTTATGACTTACCTTAAAGTTTTTTGTTCTGTTTTGAAAGGAA  
A  
CCATGTGCTTCATGAAACCTACAGTTGGCCAGAAGAATGNTCCTGCCCCGGCCGGCCGCT  
CTAAAACTAGGGGGATCCCCGGCTGCAAGGAATTCGATTTCAAAGCTTATNGATTCCCG  
NCACCTCGAGGGGG

Sequence 419

CCGCGGTGGCGGCCCGAGGTACAGTATATTGACCTTAAAAATCAGTAAAGCAGTCATGGA  
AATAACAGGTCGTGTATTATTCATGGGCACAACTGACTCATGGCTGGGGAAGAAGCAGC  
CACCTTAGACCAGATGGACAAGCCAGATACTGCAGAGAAGTTTCTGGGCTTTTCGGGGAG  
CTCTAGATTCAATTCTGTAAAGTTATGATGCAGTTTTCTCCTTCCTCTCCTCTCACCTN  
C  
TNTGAGCACAGCTTTCAACAAAACTTTGCATACCCCGCGTACCTGCCCCGGCGGGCCGCT  
CGAGGTACTTCTCTGAGCATTGGCCTCTGGCTGGGATTATGCTTCAACAGTCTTGAAATG  
AGGTCCCTGGCTCCCTCTGTTACAAAGTCAGGGAATGTGAATTCAACCCGTGATATTCTT  
TTGTAGGTCTCTTGGTATGTGTTTGCCTCAAAGGAGGCTTCCCAACTAAAAATTCATAG  
CAAAGAACTCCAAGGCTCCAAGAGATCCACCTTCTCATCATGCATCCACCTTCAATCATT  
TCANGGGGCANGGAGTCCAAGGTGCCACAAAGAGNGGTCTTCTGGGAAGATGGAGCATG  
TACCTCGGGCCCTCTAGNACTAGTGGAT

Sequence 420

GAGGTACGCGGGGGTTCGGCGCCATTTTGTCTCGGCAGCGGTGGCCCGTAGCTCCATCGCA  
TTTTATGTTTCTGGCGAGAAGGGAACGGAGTTTTTCATCAGGTAGATTGGTTTTTGT

Sequence 421

GGGGCGGCCCGCCGCTNCCCGTGAAAGACCTCCTGCTGGAAGACCTCCAGGATGGAGAAG  
TGAGGCTGGGTGGCTCCCTGCGAGGGGCATTAGCAACAATGAGAGAATTA AAAACTTCT  
TCAGAGTCAGTTTCAAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGACA  
CTTTCAACAAACAGCAGNNGCTTAACTGTATTCTGCAAGCCAAAGAAACAGTTTTGTGTG  
CTGCCGGGCAAGCTGGGGTGCTTGACTCCGAGGGATCGTTCCTAAATCCCACCACCGGGA  
GCAGAGAGCTACAGGGAGAAACAAAACCTTGAGCAGATGGACCAATCGGACAGTGAGTCAG  
ACTGTAGTATGGACACNAGTGAGGTGAGCCTCGACTGTGAGCGCATGGAACAGACAGACT  
CTTTCTGTGGAAACAGCAGGCACGGTGAAAGTAACCGTCTGACAGAAAGCATGTGCACTT  
CNGGAAGCAGGCCTGCATCTTACCTGTACCTGCCC

N

Sequence 422

ACTTCCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGAATGGGGAATTCGCGCCCTAC  
GTGCATTCACAGGCAATGATGGGTTTGTGTGTATGGTGTGATGAGATCCTCTACCTCATA  
ACAAAAGGACAGTGGGTAGACTAAGGCAGTAGCTCAAAGGGCTTTGCAAAATTTAATAT  
ATTAACAAGAGGCATCTGCTAGAAAACATTCTATTGTATACATACTGAAAACCTATA  
AGGTCCTGGATAATTTTTGTTTGATTATTGATTGAAGAAACATTTATTTCCAATTGTGT  
GAAGTTTTTGACTGTTAATAAAGAATCTGTCAACCATCAAAAAAAAAAAAAAAAAAAAA  
AGTACC

Table 1

T

## Sequence 423

NCCCGCGGTGGCGGCCCGAGGTACGCGGGAGAAGGAGATTACCTCAACATAAGAACCGTA  
TGTGAAAAGCCACAGCTAACATCATACTCAATGGTGAAAGACTGAAAGCTTTTCCCCTA  
AGCTCATGAAGAAGACAAGGAGGCTTGGTTTTGTGGCTTCTATTTAACATGGTAATGGGA  
AGTTCTAGCCAAAGGAAGTAAGCAAAAAAAAAAATCGAAATTAGACAGGGGGAAGTAAAA  
TTATCTTTTTGCAGATGATATGACTTATATGTATTATAGAAAACCCTGGGCCAGGTGCA

A

TGGCTCTTGGCTGTAATCCTAGCACTTTGGGAGGCCGAGGTGGGTAGATTGCCTGAGCTC  
ANAAGTTTGAGACCAGCCTGGGCAACACGGTGAAACCCCCCTCTACTAAAATCCAAAAA  
AAAAAAAAAAATTAGCCCGGGCGTGGCGCATGCTAANGCANGGAGAATTGCGTGGAATC  
TGGGANGGTGGANGNTGCANTGAGCTTGAAGATCTCCCCCTGNACTTCCAGCCTNGGGGG  
ACAGANCCAAGACTNTTTTNTTCAAAAAAAAAAAAAACCGGGGGNGGACCCCTCAAGAA  
TTCNCCCNCCCCCCCCGAANCCCTGGTTTGAAATTAATAAATGGGGTCCGCCAAANA  
AAGTNCNGCTTNTTCAATCAACAGGCCAAAAATTCCTTGTTTTAAANCCCTGCCCTT

T

AAAANTTTTAAAAAGGAACTTNGNATTCCCGTTTCTTTTTATTGCCTCCAAAAAAA

AAAAAA

## Sequence 424

CCGCGGTGGCGGCCGAGGTACTGCCGAGCCGCTCCTCCCGCAGCTGTGCCGCTCCTTGT  
CCTCCTCCTCATTGTCACTGCCAAACAGGTCAATGTCATCATCCTCGTCATCCTCTGC

TG

GTGTGGCTGGCTTCCAAGCTGGTGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTGAG  
TGTGTGGTGGAGGACGACAAGGTGGGGACAGACTTGCTGGAGGAGGAGATCACCAGTTT  
GAGGAGCACGTGCAGAGTGTGATATCGCAGCTTCAACAAGATCTGAAGCCTGAGTGTG  
GGTACCTGCCCG

## Sequence 425

CCTCCCGCGGTGGCGGCCGAGGTACTAAGTGGTTAAGGATGGAAAAGAGCTAACAAGTGA  
CAACAAATACAAAATAAGCTTCTTCAACAAAGTATCCGGCCTTAAGATCATCAATGTAGC  
GCCGAGTGACAGTGGGGTATACAGTTTTGAGGTGCAGAACCCCTGTTGGCAAAGACAGCTG  
CACAGCTTCATTGCAGGTTTCAGGTTGGTTGATTCTTGGGCTTTTCCTTCATCATTAT

A

ATAATGTAGTTCCTGATTTTCATAATGTATATGGGTGTTACATCTTCTATAGGATAAC  
ATGAGTCCGACATCTTCTGAATCAGCAAATTCAGAGGCAATACCATCTCAAGAAGCCACC

## Sequence 426

CTNCCGCGGTGGCGGCCCGCCCGGGCAGGTACTGAATGTGGGAAAGCCTTTTGCCAGAAA  
CCACACCTGACCAACCATCAGCGAACACATACAGGAGAAAAACCCTATGAATGTAAGCAA  
TGTGGAAAAACATTCTGTGTGAAGTCAAACCTCACTGAACATCAGAGAACACACACAGGG  
GAGAAAGCCCTATGAATGTAATGCATGTGGGAAATCCTTCTGCCACAGATCAGCCCTCACT  
GTGCATCAGAGAAGACACACAGGGGAGAAACCTTTTGGATGTAATGAATGTGGGAAACC  
TTCCGTCAGAAGTCGGCCCTAATTGTTCAACAGAGAACTCATATAAGACAGAAACCCTAT  
GGGATGTAATCAATGTGGAAATCTTCTGTGTGAAGTCAAACTCATTGCACATCATAGA  
ACACACACAGGGGAGAAACCCTATGA

## Sequence 427

CCCGNGGTGGCGGCCGGGTACCTTACTTAGCAGAGCACTTTGCAACATATTACTTATTA  
GCAGAGCTCTTTGTAGACCTTCCACATCTGGCTGTGAGATCTTAAGGTTGTGAATTTAGG  
CTCCAGTTATATTCACTGGAGAGCATAATCCACACGGGTTATTTATAAATACAGAGCCT  
CTGATTGGACGGTCTCCTGCCAAGAACTAGTAATACCCTTGTTTTAAATCTTCACAAGG  
TAAACTTAAAAAGCCAACCAACAAATTGCTCTCCATTCTACTTTAATTGGGCCAAAC  
AGCATATGCTACAGTAGTAACATGTTTTTCGGAGAGTGTAAAAACTCTGTTTACATTT



Table 1

G

CCTCCTCGTGGGTTGATCGAAAATGTATAAACTGACTGCTTCTCGCCAGCCTCAGACAA  
GAAAGAGTGAGCTGCTGGTACCTGCCCCGGCGGGCCGTCTAAACTAGNGGGAT

Sequence 428

GGCCAAATGCAGAAACGTCCCACATGCCACCAGGAGCAAGCTTCAAAATGTTGAGCTTG  
CGGGGCANTNNGCAGAGAAATNCCAGGGATGTTCTGAAGGCCTNGATGATACCANTATC  
CTCATTATAAGATGAATGCACGGGGGCCNTTGCCTGGATACCGGCNAACCGNNTCTNA  
TTNTGCCTNTGNCAGCTCTCATTGCTGAGAGGCATAGACCTTTTTGANGATCATTCCAA  
NGCTATAAGTCNTCTTAAGGAGCAAAAACCAGCTTCCTTGGTCTNTCTTGAAGNCCTTCA  
ACTTTATCTTTCAACTACCAAAGGGAAGGTNCAGGAACTTTCTCAATAACCGANGGAC  
CTTTAGGACATGAACCAGGTGNCCTGGNTAGGGGCTGGAGGCCAGCCAGGGCAAGAAACA  
NAATGGCCGATANCCGTTTTTGGGGTCCCGCGGTACCNTTGNCCCGGNCGGGCCGGCT  
TCTAANAAACCAAAGTGGAANCCC

Sequence 429

CGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTGATCTCAACTGCTTTT

A

GCAAGTTGTGAATATACTTGGGCTTTCTGTCTTCCCCAAAAGCAATTTGGGATTATTT

T

CCTCCTTTTTTTCTGCATTTTCATATAAATACTGTCAATTCATACACAGTAGCATCTT  
CTGCAAGGGCCTTCTGGATTCCAGTTGGTCTGTTTCATGGCCTGCTTCTTAGCAGC

TT

CCCTCTGAAGGCTTTCACTCACAGAGGTCTCATCATCATCAGAATCATTCCCAAACA  
CTGATGGTTTTTGCAAAACAGGGTGCAACTGCTGTGTTTTCTTGGCAAATAAGCCCAT  
ACTACCTGCCCCG

Sequence 430

GTGGCGGCCGAGGTACAGACAAAACCTACAGACTTAGTCTGGTGGACTGGACTAATTACTT  
GAAGGATTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAA  
TAAGACTCAAACCTGCTCAAAGTGACGGGTTCTTGGTTGTCTCTGCTGAGCACGCTGTGTC  
AATGGAGATGGCCTCTGCTGACCCAGATGAAGACCCAAGGCATAAGGTTGGGAAAACACC  
TCATTTGACCTTGCCAGCTGACCTTCAAACCTGCATTTGAACCGACCAACATTAAGTCC  
AGAGAGTAACTTGAATGGAATAACGACATTCCAGAAGTTAATCATTGAATTCTGAACA  
CTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATCATCTGGAAACCGATTT  
CAGTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCCAGCCCCAGGCTGCAGCCCATTGG  
CAGGCACCCGAAAGAACTTCCCCAGTATGGTGGTCTCTGGAAGGAC

Sequence 431

GGTGGCGGCCGAGGTACCAAAACAACAGCCCTCCAAACAATGATGACCAGTGGAAAAACA  
ATGGAGTCACCAAAACCTGGGACAGGCTCATGCTCCAGGACAATTGCTGTGGCGTAAATG  
GTCCATCAGACTGGCAAAAATACACATCTGCCTTCCGGACTGAGAATAATGATGCTGACT  
ATCCCTGGCCTCGTCAATGCTGTGTTATGAACAATCTTCGAGCGGCCGCCGGGCAGGAC  
GCGGGAGTTCAAGAAGCTGGTGGTCAAGGAGGAGGAGGTGGAGGTGGCAGTGGAGGAATT  
GCAGAAGCTGGAAGTGGTCATATGAACACATTCAAGTAACACCTCAGGAAAAAAAAGCT  
ATAGAAAGGTTAAAGGCATTAGGATTTCTGAAGGACTTGTGATACAAGCGTATTTTGCT  
TGTGAGAAGAATGAGAATTTGGCTGCCAATTTTCTTCTACAGCAGAACTTTGATGAAGAT  
TGA

Sequence 432

GCGGCCGAGGTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTC  
TGCGTTGTTACCACTGCTTACTGCGTTCCAGCATTTCTTTCTCTTCTCGTTTCCTGT

A

GATTCCGGCTAATGGTTTCCCCTGGCATTGACTTCGTGATGTGTAAGTGAAGTCTCTT  
CC

Table 1

TGAAGGGGGAAACGCATTCCAGAGCATTTGTTGCGGCTCATGTAGGAATAGATCTTTGAC  
TGCCCGGTAAATCCCGCGTACCTGCCCG  
Sequence 433  
GNGGTGGCGGCCCGCCGGGCAGGTACAAATCTACCTCCCACCAAATGTCCTTAGAGGGC  
CAAAGATGGCCTTTGTTTCTTCATGATAACATCGCCTTTCTTTTTTTTTTTGAGACAC  
G  
GTTTCATTCTGTCAACCAGGCTGGAGTGCAGTTGTGCATTGCTCACCACAGCTTGA  
ACCCCCAGGCTCAGGTGATCCTCTCACCTCAGCCTCCCAGTAGCTGGGACTACAGGGGC  
ACACCATCAAGCCCCGGTAATTTTGAAATTTTATAGAGACAGGATTTTACCATGTT  
T  
CCCAGGCTGGTCTTGAATTCCTGGGCTCTAGTGATTCCTCTGCCTTGGCCTCCCAAAGTG  
CTGGGATTACAGGCATGAGCCACCACACCCACCTGTCTATTTTACAATTTTCTTTGAG  
CTCTTTTTCCAGCAGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAACTGCTGA  
CTCCCTTTATCTTTCCATAGCACCCCAAGC

Sequence 434

NCGCGGTGGCGGCCGAGGTACTTTTCTAAAGCTCATCCACTCTATCATTTAGATATCCA  
ATTTTCAGAATGTGCTCAACATTGGCCACTCCATCTGCCATTCTTAAGTCTCCTTGGG  
AG  
TCTCCCAGAAGAATTATGTTACTATTGTCTTTTAGTTGATTGAAATATTCTGTATTCCTC  
AAGGCACCATCATGTTTGTAAATACATGAATTAGTTCTCCTTTAAATCCTTTGAGCAC  
C  
CCCTATGAAAAATAAAATCTTTGAACAGGCTTTAAAAATTCTATTTGTTGGATTTTCA  
TATTTTGGAGCTCTTAATTGATGTCACTATTATTTTCATCATATTTGTAATACATCTTTG  
ATACTAGAGATCTCAAAGCACTTAAGTCCATCACATTCACCATAGCTAAGAAGGGCTCGG  
AGAAGTAAATGATTTTTTAGATACTATTTTAA

Sequence 435

CCCGCGGTGGCGGCCCGCCGGGCAGGACGCGGGGGTTGCTCAAACCGAGTTCTGGAGAAC  
GCCATCAGCTCGCTGCTTAAATTAACCACAGGTTCCATTATGGGTGCACTTGATGGGA  
AAGTCATCATCCTGA

Sequence 436

GTGGCGGCCGAGGTACGCGGGGGAACACCACCCAGTGTGGAGCAGCCAGCCAAGCACTG  
TCAGGAATCCTGGGAAGCACCTCCAAGTGAAGTGCAGATCTGGAATAATAAGTGNNGGGTA  
GATCTGCCCATAGAGCTCACTTTAGACCGGCCTATACTCCTACAAGGAATTGNGGTAGGG  
ATCTTNTACTCATCCTTGGCACAATAAGAATGGCCAATGCCCTTTCTAGTTGTTTGGGGG  
AAGGTCTTTGAAGGCACCATTTNCCCCATCCCCCTGGGGGAAGAAATGGGGTCCCTAAG  
GTAACGCCANGGTTTTTGGGGGTTNAATTTGCAAAAATCCCCTTTTTNGNGGGNTANNA  
CACAAATGGGCTNGGCAATTTNTTTNTTNCCTCAATTNGNTCAAAANGCCCAANAAAT  
TTTTTAACCGGGTTGGGGGGGGGCAAAATTTTTTGGGCCANNTTGGCAATTCNCNGGG  
ANAAAAAATTTCCCAANGGGGCCNGNNGTTCAANTTTCTTNTAACCCCGTTTNAACCT  
TCNCCCCCNGTTTNTTTTTTGGANCCCTTAAAAAAACCATTTTTTTGG  
GG

Sequence 437

GGCCGAGGTACCTTTTTAGAAGAGAAAAGAATCTTGAATTGTATATATTTATTTTGCTT  
T  
ACAGAAAAAATGGTTTCGTAATAATTTGCCTATTTTGGTTAACATAGCACATGGAGAT  
AATCATCTGAAAGTTATAGGGCACTGCCACTGCTGAATCAAGAGCATGCCAATATTTGA  
GGTGGCTCTGATTCTGTCAGCTGAACTCGGGTAGTCCAGTGGCCTAGCTGGTCTGCTG  
CG

Sequence 438

CGGGCAGGTACGCGGGGAGGTGCCGCTGTTGCTGCTCGTGTGAATCTAGAACCGTAGCC

Table 1

AGACATGGGACTGGAGGACGAGCAAAAGATGCTTACCGAATCCGGAGATCCTGAGGAGGA  
GGAAGAGGAAGAGGAGGAATTAGTGGATCCCCTAACAAACAAGTGAGAGAGCAATGCGAGC  
AGTTGGAGAAATGTGTAAAGGCCCGGGAGCGGCTAGAGCTCTGTGATGAGCCGTGTATCC  
TCTCCGATCACATACAGAAGAGGATTGCACCGGAGGGAGCTCTTTGGAATTCCTTGGCAT  
GCCGAGGGGACCCATTTGCGTGGGCCCACAAACNTCTTTAAACAACCTTGGAAATAAAAT  
GTGTGGGACTTTAAATTTACCCCCAANGTTCTTTTANTNAATTCTGGGGGGCATTCAAG  
AAATAATTTTCTCTTTTATTGGGGTNTTTGGGGAATNNTAACCCCTTCGGGGGCCGG  
CT

TCTTAAGAAACCTTGNTGGGGGANTCCCCNCGGGNCCTTGNCAAGGGAAATTTTGGAT  
ATTCTAAGGCCTTTAATTCTGATTACCCCGNTTCTAANCCTTNGAANGGGGGGGGGNC

Sequence 439

CGAGGTACTCTGTGATTTACCTAGATTTGGAGAAGGTGAGGGAGGAAAGGCTGTCTNT  
TTGATCCCATAACCATGCAGGGGCAAATGGCTGCCAGCATAACAAAATAAGAAGGAAAGAA  
AGAAAAGTGGGCCAGGCGCAGTGGCTCACTCCTGTAATCCTAGCACTTTGGGAGGCCGAG  
GTGGGCAGATTACTTGAGGTCAGGAGTTCAAACCAACCTGGCCATCATGGTTGAAACCC  
CGCCCCACCAAAAATACAAAAAATTAGTGGGGCGTGGATGGTGTATGCCCTGTAATCCCA  
GTCTACTTTGGGAGGCTGAGGCCAGGGAGAAATCNGCTTTGAACCCAAGTAGGCAGNAGG  
GGTNGNCATGTTGAGCACGAGTATCGTTGCCCACTTGCACTCCAACCTGGGCCGACAGNA  
GTCAAGTACTCTGGGNNAANAAAAANATAAACAGGAAAAAAGNGAAGGNAAGGGAA  
GGGGGGAAAAAGAAA

Sequence 440

GGGGCGGCCGAGGTACGCGGGATGTCTAAAATATCTTGTAAGGAGTGTAAATAAACAA  
ACCCAGTCAATTAATAAATTTTACTGTTATTGAGAAAACCTCCAATGAGGGAAATAATAAG  
ATCTATAAAGGTCTTAAGAAAAATATAATTTGAAAAAACATGTGGCTGAGTGTGGTGGC  
TCACGCCTATAATCCCAGCACTTTGGGTGGCCTAGGTGGGCAGATTGCTCGAGTCCAGGA  
GTTTAAGACCAGCCTGGGCAACATGGCAAACCTGTCTCTACAAAAAATTAGCCAGGTG  
TGGTGGGACACGCCT

Sequence 441

GCGGTGGCGGCCGAGGTACATTGTAGCTTTGAACTCAGTGTTTAAAAATTCAATCTGGTT  
ACACACTCTATCTTCTAGATCCCTTGAGACACTGTCTTCTTGAANAAGNCCAGGTGAA  
ATGGCATTTCAGCTGTGGAAGGATTTTCTCCAGGGAATCTTGGTGACCTCACTCATGAC  
TGCCCTCTGTGTCTCTGCTGTTCCGAAAAGCTGGTGACCAGGCTGATTTGTTCTTCAGAA  
GTCTTCTGTCTGCCCCCGCTACTGTTCTGCAAGTTAAGGCAGGACTGGAACCTCCTCC  
ACAGCTTGACATAGTTTTAGATTCAACACTAATTCTCCGAGTTTAAGATGTGCCTGG  
GCAGCATAAAGCTGTGCTTCTTTTGTTCCTTGCCTTTAAAAATGATCTTTGCTAAATC  
C

AGCATATCCCAGGCAAGCTCTAGGTTCCCAATCTCCTCCTCCTCATTTTCTTGAAGAGAC  
TTGGTTTCAAGGACTGAATCATTTGGCAT

T

Sequence 442

TGGCGGCCCCGCCCCGGGCACGTACTTTTGCTGCTGAGGAATGGGAATCAAAAGAACGTAGT  
CTCCTGGTAACCACCTCAGATCTCTATTATTAGGCTAGATGTNGNGCNNGTACTCCCCCA  
GCTTCTTGCTCINNACCCTGCACTGTAAGTTGCCCTTCTATTAGCAGCCAAGGAAAAGGG  
AAACATGAGCTTATCCAGAACGGTGGCAGAGTCTCCTTGGCAATCAACCAACGTTGCTAT  
GAAATATGCCTCACACTGTATAGCTCATTATAGGACGTCAGGTTTGTTGAAAAAAGTGN  
GGCAAGACATGATTAATGAATCAGAATCCTGTTTCATTGGGTGACTTGGAATAAAGACTT  
TTTACTTTTANAAAAAANANGTCAANAAANANGTCCCTNNGCNCGGCTCTAAGAACT  
AGTGGGATCCCCCGGGGCTGCAGGGAAATCCGNATATTCAAAGCTTATCCGATACCCGG  
NNGAACCCCTCCGAGGGGGGGGGCCCCCGGNAN

Sequence 443

Table 1

CCCGCGGTGGCGGCCGAGGTACATGAGAGACACTTTAAGCAGGCTCACAGGAATAGAGTG  
AGTGCGGACTCAGATTGTTTAAGCTATCTCTGAACCCATTCTACTGCGTTTAACTATT  
T  
TATTGGTTTCTAACTACTACCACAGACACGGATACCTCACAGGTTCCATTATTACTCAC  
A  
GCGTTGTGGTCCGGGTTTCATCGCCATCCTGCTCCACGCTGTCATAATCCTCACGCATCCG  
CGCTCGGGACCCCTCTTCTATAAGGGACATACACGAGATCACCGAAAACTCCTCCTTTCT  
CCCATTGTTCTATGAGGTGGGTGGGGACTCCAAAACCCGTAGCTCCTGCCCTACTAGGC  
CACTCTACCCCAT

## Sequence 444

CCACCGCGGTGGCGGCCGAGGTACCCAGCCCCACCCAGGCAAACAGCTCCGACATGTTTC  
GTAAGTGAGACAAGCCAGTGCAAGTTTTTTTTTCTTTNNTTTTNGGCTTACCTTCT  
T  
GCTTAATGGAATTGTTATGGCTAAGCACATAAAGGCCAAAAAGGAGTTTTTCAAACCC  
AGCAAATCAAGTGCTTGGATTCTGAAGTCCAAAAGAAAAGTCACTTCCCCTCTTAAGT  
AAAACCGAAATGAGTTTTCTAGGTAATGTATTCATCAAGCCCAGNATATAGAAAATAA  
AACCCAGGTTANTGGTGNAGCCGTTAGGTACCTGCATCATTTTCCAGGGAAAGATTCA  
AACCAAAAATACCAGTNCCCAGNCCAGGACTCACAATGTGTTGGANTAATATTATTATTA  
AAAGCAAAAGGAGGCCCNCCCCACCAAGGCCAAGCAGCTGGGNTGGAAAATAATCAA  
GGCCTGGTCCACNCCCGTNGGGTAATGCCAAATCCGGGGGGAAAAATATACCTNCCC  
TTTGGNAAAAAACCTTGGGAAAGAAATCTTACCCTTNGCCTTGGGGAAAAAAA

## Sequence 445

TCCCCGCGGTGGCGGCCGCGGCCGAGGTACTTTACTAAAATGACTGCATTCTTTGGATTG  
CTTCAGTCTATGGTTCAAGTCACTAAAGATTCATTTTTGTGAGTCCTTATGAGAAACA  
G  
NAGTATGAATCTTGACGGTTTCTGCCCGTCTAATGGCAGAGCTCTCTGACTTGGGTGTA  
TGCTACCAGGCTGGGTTCAAGTGAGAAGTTCTGGTCAGTCTTCTGTGGGTTGAAGGTTCA  
ATATCAATTCTGTTTCAAAGCCTTGTGATGCTATTTGAATCTTGTCTGGTATATGCC  
A  
CCCAGTGGGTCAAGTCTGGGACCTAGGTGGTGAGCTATCCATAAGTTCATTCTCAAACC  
GTCTTTACTGCACTGTTTAGGGTCAGATACNCATTATATACNACTTTGGGTGAGCT  
CA  
GGAGTTTATAAGCTTTATGGGCTTTGGTGTTTTGATTTATAACAGGAGTTTATNGAAC  
T  
TTATGGGGTTTGCTTCCTCTTTCTGCCCAGGTTCTTGGG

## Sequence 446

GGTGGCGGCCGAGGTACGCGGGGAGACACAACCTTCTGGGCTTAGATATTTCAGAATATC  
ACAACTAAACTCTTAAAAATTTCTGAAGGCTGGACACCGTGGCTCACACCTATAATCCCA  
GCACTTTGGGAGGCTGAGGCAGGCAGATTGACTGAGCTCAGGAGTTCAAACCCAGCCTGG  
GCAACATGGCGTAACCTCGTCTCTACAAAAAATGCAACATTTGCTGGGCTTGGTGATGT  
GTGCTGCAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTAGAACCCATGAGG  
TGTAGGCTGCAGTGAGTCATGTTTGCACCACTGCAGTCCAGCCTGGGTGACAGTGTGTAT  
TAGTTTGTTTTCTATGCTGCTGATAAAGACATACCTGAAACTGGGAACAGAAAGAGGTCTA  
ATTGGNCTTACAG

## Sequence 447

CGGCCGAGGTACGTTTTGTGACAGGCAATAAAATTTAAGAATTCTTAAGTCTAAGGGAC  
TTGCTCCTGATCTTCTGAAGATCTCTACCATTTAATTAAGAAAGCAGTGNGCTGGNCGA  
AAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATCCGTCTGATTCTAATAGNA  
GAGCCCGGGCTTCAACNGTTTTGGGCTTCCGATATTAATAAGACCAAGCTGAGTCTCC  
TCCCAATTGGAATATGAATCATCTACAGCCTTCTGCCCTGGTCGCATAAAATTATGT  
CT

Table 1

GGTGTCTCAAGGCAATTAATAATGATTGTTTTAACACCAACAANAAAGAAAACTATTA  
T  
CACNAAAANTAAGGTNCCCTGCCCCGNGGCNNGNCCGCTTNCTANGAACTTAGGTGGGAT  
CCNCCCCGGNCTGCAAGGGAAATTANGNATTATCCAAAGCCTTATTCTGAATAACCCGTC  
CGAACCCTCANAAGGGGGGNGGCCCGGTATACNCCAAGCTTTTTTGGTTCCCTTTTA  
AGTGGAGGGGTAAANTGGCCGCCGCTTGGGCGTAAATAAATGGGACNAATAAGCCTGG  
TTTTCCCTGNGGNGGANAAATTGGTTNTCCCGCCTCACCAAATCCCACCACNAAACAT  
TACCGAAGCCCCGGGGGAGCCAATAAAAAGTTGGTANAAAGCCCTGGGG

Sequence 448

CGGNGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGTTAGTGTCTTCTGATGTCTTTT  
CTAACAAATCTTTGCCTGCCCAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTAA  
G  
CTTAGCTTTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTTGGGGGGGC  
A

GAGTCCATGTTGCCCAAACCTGGTCTGGAACCACCACACCCAGCTAATTTTTGTGAATTGC  
GGGTACCAGCACACCGGCGCCGCTGCTGGACTGCGCCTTCTACGATCCAACGCATGCCTGG  
AGTGGAGGACTAGATCATCAATTGAAAATGCATGATTTGAACACTGATCAAGAAAATCTT  
GTTGGGACCCATGATGCCCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATG  
GTCACTGG

Sequence 449

CGGCGGCCGAGGTACAAAAAGCAGGGGCCAGCCCCAGCTGTTGGCTACATGAGTATTTA  
GAGGAAGTAAGGTAGCAGGCAGTCCAGCCCTGATGTGGAGACACATGGGATTTTGAAAT  
CAGCTTCTGGAGGAATGCATGTCACAGGCGGGACTTTTTCANAGAGTGGTGCAGCGCCAG  
ACATTTTGCACATAAGGCACCAAACAGCCCAGGACTGCCGAGACTCTGGCCGCCCGAAGG  
AGCCTGCTTTGGTACCTGCCCGGGCGGCCGCTCGATCTCCTTGTGTTCAAGCAACTTCTTG  
CGGTAGTCCTGAAGCGCCTTATCTCTAGGGTCCGCCATGATGAGAACCCCGGTACCTGC  
CCG

Sequence 450

NGGTGGCGGCCGAGGTACTCCCTACGGCACTAGTCTACAGGGGGAAGGACGCTCTGTGCT  
GGCAGCGGTGGCTCACATGGCCTGTCTGCACTGTAACCACAGGCTGGGATGTAGCCAGGA  
CTTGGTCTCCTTCCCGCGTCAAGAGATAGAAAGACCAGTCCTTGTGAAAGACAAGTCTGA  
ATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAACTTCAATGTCGGATG  
G

ATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCATTCTCTGCTGGATGACG  
TGAGTAAACCTGAATCTTTGGAGTACCTGCCCC

Sequence 451

CGAGCGGCCCGCCCGGGCNGGTACAAATGCGTTTANGAAATGTTAGTATAAGGCTGATCT  
GGACCCAAACTAAACAACGTTAATCCTCTTCAAATCTAATTTAATATAGGGAATAAGAT  
TATTGAAAAAAATTTTTTCTGATTTTCTTTTCTGAAAGGTTTTTTGTAGAAACCA  
TGGTAAAAAGGGAAAAGAAACCTTTGACTGGCGGGGGCAGGGGGAATACAAAAAAAAT  
CCCTTGATTTTTAAATATACCTTGAATATCAAACCTCAGAAAGAGTTATTTTTGTGAAAGA  
GGCAAAATTGGTCTTGAGCTGCTTCAGTCTATGTCTGAAGGTTTTACTGAAATTATGG  
TC

CAGTTTTAGGAGAAAAATTCACAGAAAAGTCAGATTGTAGATTTTGAGAAGGAAACTCTG  
AGGTGGTGATTTTCTCCAAGGTCATGGTTATGAAGCTCAATGAGGGCCTGAATTGCTTCT  
TCCACAGATCCCAATTGAATGAGCGCCATTTTGCATCTTTCTGAAAGAATTTAAAA

Sequence 452

GGGGCGGCCGCTAATGTNAGAAGTTAAGTNAGAACCTATATTGTACGAGGAACAAAAGCC  
AATCAGTGTCTTTTGTCTTTTTTACATAAACTTTTACTACAAAAATTNATATATGGA  
TTTTGAATTTCCAGTCAAACCAAATTGTAAACTGTTTCATTTGGTCTATATTATGTAT

Table 1

ACATAATTTATCTATTATATATTTACATTAAATATATGCATATATAATGGATTTAATTT  
CCTTTNGGNACCCCATATNTAGAAGNNTCTTCATAANTTAATAAATAATCTAGGGCCAG  
CATTATGTTTGCTAGACCTGGNTTTGGCTCAATACTTAAAGTTAAAAGTTTCTGTCTTT  
T  
TTCTTGGACTTGAAACTGCCTANAGCGTCAGCCTCTCTGTTATTTNTNTCTATTTNCTT  
T  
TTCCCCATCAGTCTTTTAGCCACTTGAAGCCAAAATCTTAGTTTCTGTCTTAGTNGA  
T  
AAGAGTAAAAGGGGAAGGAG

Sequence 453

ACGGATACCCGTGTTCCGCCCTTTCTCCCTTCGGGAAAGCCGTGGCGCNTTTCTCATAGGCT  
CACGGCTGNAAGGTAATCTCAGNNTCCGGTGTAAAGGTTCTGTTCCGGCTCCAAGNCTGGGCC  
TGTTGTGGCACCGAACCCCCCGGTTTCAAGCNCCGAACCCGGCNTGCGGCCCTTATCCC  
GGGTAACCTATACGTCTTTGAGGTCCCAACCCCGG

Sequence 454

NGAAGGCGGACGCCCGGNCAGGTACGCGGGGACCTTTNACGGGCGGGGGGAGCTGAGGCT  
CCTGNCNTATCTNTGATCCTTGACCCTGGCAGGAAGNTGGTAGGGGGNACTNTAACGG  
GAGGNTNCACATATTGCAGAAAAGAAACCACTTTGGNGNGTAAGACTTGGAAGAAAGTA  
ACCGGTCACTTTGGAAAACAGGGGTGGGGAAGAAGCTGCCTCTCTTTGAACCTNTTCCN  
AGGGACCAANTCTAACCCAGGTGAGGNNAACCNCTGGTNGATGTAAAGCCGGTGGCTTTGG  
AGGACAGAATCATCTAAGTGGGAANAAGATACACTAGGAAGGGNGCTGGGGGGANTACCA  
TCAAGAGGGAGGNGGGGATNACCTTCAGGCCGGGGGCTTNCGGNGGGGATGAAAGAAGGA  
ATGGGNCCGGACAGGTTTGNNGGTNGGAGGGTATGAAGGCTTGGCNAATGGTGGGGAAT  
TTTGGTAACNTTCGGGCCGGGTTTTAGAACTNAGGGGGGANTCCCCGGGGCTTNGGA  
AGGGGAAATTTTCGANTAATGCAAGGCTTAATANGAATTACNCGGGGGGACACTTCGGAG  
GGGGGGGG

Sequence 455

CCGCGGTGGCGGCCGCCCGGGCAGGTNCGCGGGGAGGATCTCTGTCTTTTGTTCCTCA  
CCTGTCTGCCTGTCTCCTCTCCTTTCTGCCTGGGGGGACTGTCCAGAAGACATCATCGT  
CCAGTTCCTCTGCATTTGAACAGCTGTNCCCCCACCCTCAATACCGTTTAGAGCAGAAG  
CCAGCAAATACTAATCGGTGAGGACACGATAGAACTATTTTCGGCTTCATGGGCCACA  
CAGGNTTCATTGCAAGCTCCTCAAATNTGCTGTTTGTAGCTAAGGAAAGAAANCCATTAT  
ACCNTGTGTNAANCAAAAATGAAATATTGGCNTGTGTGCCAATAAAAAACCTTATTNACA  
AACATTAATNGAGTNGGGCNTGGATATGACTTCACNANTACTGGTTAGTTTTGACAACCC  
CCCTGGNTNCTAGNAGTTAAAAATCCCCAAAACCTNCTATTAGTCCCTCCC

Sequence 456

CGGCCGAGNACAACATGACATTTTAAACCAATCCAATCTAAAAATGTTGCCAGAATCCAC  
CTGTGGCCCNGAATCGNGTNTTGGTTCCTCTTTCTACTCCNCTGCAGANGACCAACCTG  
TCCCGCTGCCACTTTCCTCACTGATATTGGGAGGAGGGCAAGGCCAGCCGAAGTTCAC  
TAAAAATGCCCCAGGAGAATAGGCACCNNGGCTGGCTTGCCAAAGGGTTTNGGGTTTTATT  
GCTTTCTGTTTTTCTTTTCCCCGACAGCACAAAGAANGTAAAGGGGCAGTTAATTGGAC  
AGAGTGTTATTTTAAACATCTCTAATTGTAAATGNAATGTGTTGGTTTGGGTTTCTA  
C  
TGCAATTGGTGNGAAGCCATGCCGGNGGGGAAAGAAGAAACNTGACCCCAAGGNTAATTG  
AAAAATNGGGAGNCCCCCTTC

Sequence 457

NCGATATTACTGTGCGAGAGGTAAAGGATATAGTGGCTACGATTACNGCCTCTCT

Sequence 458

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGACAAAACCTACAGACTTAGTCTGGTGGA  
CTGGACTAATTACTTGAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGA

Table 1

GCAAAATAAAACAAATAAGACTCAAAGTCTCAAAGTGACGGGTTCTTGTTGTCTCTGC  
TGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTCAGATGAAGACCCAAGGCATAA  
GGTTGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTCAAACCCTGCATTTGAACCG  
ACCAACATTAAGTCCAGAGAGTAACTTGAATGGAATAACCGACATTCCAGAAGTTAATC  
ATTTGAATTCTGAACACTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATC  
ATCTGGAAACCGATTTTCAGTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCCAG  
Sequence 459  
GGCGGCCCGCGGCGNGGTACGCGGGTCTGNGCTGGTTAGTGAAGGCTTTGTAGCTGAGC  
AGTTTCTAAATAACACAGCCACTCAACTGACATACCATGGATTATGTGAACCTAATTCAA  
CGGTTTCAGGAAGGAGAACTTTGTGTGTTCTTTCCGAATAATCATTTTAGCACCATGACCA  
AATACAAGGGTCAACTGTATTTGTTGGTAACGGACAGGGGTTTCTTACTGAAGAGAAAAG  
TTGTTTGGGAAAGCCTACACAACGTAGATGGTGATGGAAATTTCTGTGACTCAGAATTTT  
ATCTTCGACCTCCTTCAGATCCTGAACTGTATACAAAGGACAACAAGATCAGATAGATC  
AGGATTATCTTATGGCATTATCTCTACAACAAGAACAGCAGAGCCAAGAGATCAATTGGG  
AACAAATCCCGGAAGGAATCAAGTGATTGGAACTAGCAAAGAACT  
Sequence 460  
GGCGGCCCGGTACGAATGTGCAATTAAGCATGGTAACTGATTTTACATAAATATCA  
AACCAACAATTAGTTTATACATTGTCAATGACCTTCTAAGATATGTCATGAGTGGATCC  
A  
AGAATATCTTTCCCCCAATGGAGAAGGTATTAGAGGCTAAATCCGACACTTTAAATG  
ACACACATCATAGGCTTTACCTGTTTGACCACTGCCTCAAATGTGTGAGATGTGATTT  
TA  
TGATCCCGCGTACCTGCCCCGGGCGGCCGCTCGAATAGACTTCAGGGAAACAACACGTCCT  
GAAAGAAACATGATTCCCCTCAAGCCACAAAGGATTTTCTCATCAAGTGTTTTACCTCT  
GCATTAGATTTGGACACAAGAAGAGGAGAGCATTTACTCAGGTAAAAATAGTTCTCTTAG  
TCTTTCTCTAGTTACTAATTTTTAATTTAAAAATACAATTAAGTATGATCTAGTGATAA  
AAGTCACAAGACAGAAATAAGCTAAGTTCTCTCTTNCCTTTAGGGAACGCTGGTGCAATT  
CACCA  
Sequence 461  
GAGTTTGAGAAAGCTGCAGAGGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAG  
ATGCTGTTTCATCTATGGCCACTACAAACAAGCTACTGNGGGCGACNATAAAACAAGAAC  
GGCCCCGGGGATGTTGGACNTACGGGGCAANGGCCAAGANTTGGANGCCTGGGAANGAG  
CTGAAAGGGACTTCCAAGGAAAGNANGCCATGGAAGGCTNTACATCAACCAAGTATG  
NAAGAAGCCTAAAAGAAAAAATAACNGGGANTAATGAGAGCACNTGGATTTTGGGNTAC  
NTGTGCCCCATGTGTTTTATTCTAACTGGAGNACAATTGCCTNGNNTTTTTCTAAN  
N  
ACCCGNTGGAATGGTTGGGAAATCTCTGGGGAAAAATAANCCAGNTAAACCAGCTACC  
TCAAGGGCNTGCTCACCCATACCG  
Sequence 462  
AGCCCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATATTGTTCTGATTTGCCTGATGTG  
TGGACGGATCACCAAGCGAGTGACACGAGAGCTCAAGGACAGGCTACAATACAGGTCAGA  
GACAATGGCTTATAAAGTTTAGTGTGGTCTCAGGATGTGACAGGCAGTCCAGCCTGACC  
TTTCTGCACACTCCAGACAACTTCCAGACAAGCTCCTTTGTGCCTCTACGTGGAGAGG  
GCGTGGAAGTTATCACATTAAGATGGAGGATTTAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAGTACCTGCCCC  
Sequence 463  
GCGATNCCCCCTGGGAAGCTCCCTCGTGCCTCNTCTGNCCGACCCTGCCGCTTACCC  
GGATACCTGTCCGCCTATTCTCCCTCGGGAAAGCCGTGGGCGCTTTCTTCATAAGCCTC  
ACCGCTGTAGGNATCCTCAAGNTCGGGTGAAGGNCGTTCTGCTCCAAGGCNNGGGCTGG  
NNGNGCACNGAACCCCCCGNNCAAGACCCGACCCGGTGGCGCCTTAAACCCGGAAAACT

Table 1

AATNCGNCNTGGAGGTCCCAAACCCCGGGNAGGACACCGACTTATCCGGCCACCTGGGC  
AGGCAGCCAACTGGGGTAAACAAGGGATTAAGCAG

Sequence 464

CCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGTTT  
T  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAACNGCNGCCNCCNCCATGAAAGAGGG  
GCCNCCACATNTTATTGCATACNCAGGGGAATAACTTATTNTACAANGAACNCTCCTCC  
ATTNGGAGACCATGCCCCTTACAGAATGCANCCGNAATGCGGTAAATNTATTACAGA  
GGNTGGGGNGCAAGATGAGANAAGTTTANCCCCAGGAATTTGAAGNGAGAATGATCTAC  
AAATTNTCCTGACAAGGNGCAACCGGGCTTGNGCTAGNGNGGNGCTGAAANAATTCCTGGC  
AAANCGTAGGGGGAGATTAAATCTCGGAATTGACAGCAAGTTTGGGGACAGNGCAAAAAN  
AGAGGGGTGACCCTGTGAAATTTGGTGCCTGGGGGAACCTCTTGANGCCCCAATGNGGGG  
GCACCNCTTNGAGANGATNGGNTAAATTTANGGGGGGATNTTTAACCCTNTCCNCC  
CCAACCAAAAAAGGG

Sequence 465

GGCGGCCGAACGCAGAGAAGGTNGANGATTGCACCATGCCGATTCGTGAACTGTGAATT  
CTACCGGGGAACTCCTCCAAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGAAC  
CAGACATAAGTTCAGAGGAATCTGTCTCCACTGTAGAAGAACAAGAGAATGAACTCCAC  
CTGCTACTTCNAGTGAGGCAGAGCAGCCAAAGGGGGAACCTGAGAATGAAGAGAAGGAAG  
AAAATAAGTCTTCTGAGGAAACCAAAAAGGATGAGAAAGATCAGTCTAAAGGAANAAAAAN  
TTTTATNNNATTAAGTACCTCGGCCCGCTCTAGAACTAGTGGGATCCCCCGGGCT

Sequence 466

TGGCGGCCCGAGGTACGCGGGGAGGTGGTGCGCGCTTCTCCCGAGGTGGAACGGGCGGC  
AGTCAAGCGCCGGCGTTCTCTGCCGTACCCCTTTCCTTGC

Sequence 467

GCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGAGACAG  
AG  
TCTTGCTCCATACCCATGCTAGAGTGCAGTGGAGTGATCTCGGCTCACTGCAACTTCGG  
CCTTCTGGGTCAAGCTATTCTCCTGCCTCAGCCTTCCAAGTAACTGGGATTACAGGCAC  
ATGCCACCACGCCCACTAATTTTGATTTTAATANAGACAGGGTTTGACCATGTTAG  
C  
CAGGCTGGTCTTGAACCTTCATCAGGNGATCTGCCCTCCTCAGCCTCCCAAGTGCTGAGA  
TTACAGGCATGAGCCACCGCGCCTGGCTGATTGNGTTCTTTCTACAGATTTTGTTT  
CT  
GTTTTGTTTTCTGAACACTCAGCTGGACTGCATTTCCAGCTTCCCTTGACAGTTAA  
GT  
CACAAGTAGCGCTGTGACTGGGTCTGCCCGGTAGGAAGGTAAGCAGAAGTGAATGTGTA  
TCACTTCTAATGGTGTGGGNTCCCNAAACCTTCTAAAGGGGTATGTTCCCCCTTTT  
TT  
T

Sequence 468

TTGGAGCTCCCCGCGGTGGCGNTCGGTGTGCTGNGCTCAGCTGCCTTCCNANGGAGGANC  
NGATCGGCNAGTGCTCTGACTGCGTGGCCGACAANNGCTGNCGNAGAAAGAAATNAAANC  
CCTGAAACATGACAGNGAGTGNTGNAAGTGTGGAAATGCCTTCTAAAGTTNATNAANG  
TNAANTCAAANNACATTTTTTTTCAAAAANATAAATTTAGAACTAANTGNACCTT

Sequence 469

CGGAGGAGAATGGTATCACTCAGGCTCTCAGAGTGACACTGAAGCAAGACACTCATGGGG  
TAGGACATGACCCTGCAAGGAGTTCACAAACCACTGGTGGAATGAGCTTCAACAAGA  
CTGCGGCCAACTTGGTAGTGAAACTGGGCAGGATGGAGTACCTTCAGGATTGGCCTGTT  
ATCTTCTTTAGAACTAAGTTCATCTTAAAAATTTAAGAAGGTGGACATTTCAACACCAT  
C



Table 1

AAGTGCATTTAGGTGACATGTTTAAGTTAACTTGACTTCCTTGAATGACCTAGTTAGTA  
A  
ACTAGTCACTAGTAATTCGGTCACCAAGCAAATCAAGCCTGCAAGAAAGGAAGCCAATAT  
TCAAAATGCCATGTTACCATCTAAACC  
Sequence 470  
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGATTTTATTGTCTACCTCTCTGGACTTG  
CTCCCAGCATCCGGACCAAAACCATCAGTGCCACAGCCACGACAGAAGCCGAACCGGAAG  
TTGACAACCTTCTGGTTTCAGATGCCACCCAGACGGTTTCCAGTCTGTCTGGACAGCT  
GATGAAGGGGTCTTCGACAATTTTGTCTCAAAATCAGAGATACCAAAAGCAGTCTGAG  
CCACTGGAAATAACCCTACTTGCCCCCGAACGTACCTGCCCG  
Sequence 471  
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGGAAGA  
CA  
CAAAGATTCAGACCACAGCCTACAGGGAGAGAGGATTTCTGAGGATGGTGGTGCCTGTG  
AGTCCACGCAGGCCTCCTGGGCATAGGATGGAGCAATTCTATCTCACCTCAGGCCTAGCA  
CAAAGGGCTTCAGTAAACCACTGGAGTTTCTTCATTAGGATTCCATCCCAGGATATCCA  
GAGGACAAGAGGCTGGCCAACTGCAGGATTAGCCTATGCTCCCGTGCTGGATATAGGCTA  
CACGCAAGAGAAAGCTTGGGTGGGATCTCCTGATCCCGGTACCTGCCG  
G  
Sequence 472  
GCCGGGCAGGTACTATGGGTGTAGTGNTACTATTACAGTTAATNCNTCCTTTGTAGTGCG  
CTGNTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTGC  
Sequence 473  
CAAAATAATTATAATGTATTAACCTACTGCCTGTCTTTTATAGGGGAAAAAATAAC  
C  
TNTTTTATTTTAAAGTTATAAGGGGGNTTACCTTNTAGNGTGCTTGGATGACAGGGAA  
AT  
TAGCCTACCCCATTTTGGTCTGGAACAGAAGACTTTCAAATTTAATATGGNCCAAGTGTG  
TTNACTANTTAAGGCAAGATCATGCTTNTGTCAGTTNACCCANTGNTTGAATACCGTG  
NACACCGATCGTGGCTCGNCTACAGCCTCCATGTNCCAGGCTTCGAGCAGGT  
Sequence 474  
GGCGGGCCCGCCGCGGCAGGTACGCGGGGGAGCTGAGCCGGTGGGTGAAGCGGCGGCCACGG  
CATCCTGTGCTGTGGGGGCTACGAGGAAAGATCTAATTATCATGGACCTGCGACAGTTTC  
TTATGTGCCTGTCCCTGTGCACAGCCTTTGCCTTGAGCAAACCCACAGAAAAGAAGGACC  
GTGTACTTCTAAAATTGCACTTTATGTTTTGTAGGCTTGGAGCTTCTTGATTATGGGT  
T  
TTTCGTTACAAAATTCAACAACAGAATCAATACTTTGCATAAACATTATGGATGCTTTTT  
CTGTTTGTACCTCGGCCGCTCTAAACTAAGTGGATCCCCCNGGCTTGACAGGAATTTTGA  
TATTAAGCNTTATCGATACCGGCGAACTCGAAGGGGGGGGNCCCCGGGACCCANCTTTT  
GGT  
Sequence 475  
TTGANGCCCTCCCCGCGGTGGCGACAGGGTTACATTGGTAAGGGTGACAGTTAGAAGGGG  
AAGTCCTTTTAGTGAAATAGATGAGAGGTTTATAGATCTGCACAAACCTTTTTCATGGAAG  
TCCAACCTTGCTCCTGGGTAGTTTAAAGGACGTAGTCCCATGTACCT  
Sequence 476  
NGGCTACACGCTAGGAACCTTGACGCTTACAGTGACAGAGCTCCCATTCACGAGGCCACC  
ACTCATCTCGATTTCTGGATCTCTAGGGAATGAGTAGAGCTCCACCTGGATTCCCTTT  
TC  
CAGTTTCTTATGTCCACAAGTCACTGTGCACAGATAAGAGTGTTCTGTTCTCAAACTCAC  
AGGGCTCAGGGTCATGCGTGGAATTTGGGTCCCTTCACTCCTCACCTTTCCCGGCTTCA  
GAGGGCTGTCTATCTGGGTCTCCAGGGAGAAAGATGGGGAATTCACAGCCCATGGACAC

Table 1

TACCATGTCAACAATGACTGAAGTCTTCCAATCTGAGCCAGGCAAATTCNNGNGGGTCC  
AGGGGGGAGAATCTCAAACAGNTAAAATGGGTTTTCTCTTGAACAAATTAAATTTCCCA  
CCTCTTTTTNTTGNTTTTTCCCC

Sequence 477

NGGNGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCAAAA

A

TATTTATTAATAATGATTTTTTTAAGTTTGAACTTTATTGGAAGGAGTCCCTCTAATTCAC  
ACTTTCATCCTAGATAAATGGGTAAGAACCACATATGGAATATAAAGCATTGATTTTT

A

AAAACCACATAGTAGCACAGTTGAAAGAAATGCAATTCTCCAGGGTCTTAGAGAATTCAA  
AGGNGGCATCTTAGGNGGGTCTTAAGGAAACCCAAATTACCAGGTCTCATGGGTTTTCC  
TTTTGGGTTCAAGGATTAGAAAGGAGTCAGNGGTTACCCACCTACCCTGGTTTTTATAGGA  
GGGGTAGGAATATTGAAACCTTTCCTACTTAGTCCANCAGGTTTTACCTGGTTCAAGGGT  
GGGNCCCCCAACCAAGGTTCTTTTTTATCTTTCAAGCCCCCATTCTTTGGCCCTCTT

AA

GNGGGGGGTGG

Sequence 478

TCCCCGCGGTGGCGGCCGAGGTACCTGCATCAGGGATAAGAACCCATTCCCCTCCCTTGT  
TCCGGTGTGCTCTCGCCATTGCACCATCCATGAGACGCACTCTTGTATAGAAGTAAAT  
GCCTTGCTGAGAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCG

Sequence 479

CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGTGTGGCCTGCATCTCAGCTGGCCGCCA  
TCAGNGTAAATAGAGCTTAAAGTCATGGTTTGGCTGCATAAAATTTTCTAACTTGGGT

T

NAATATTTGTAGNTGAAGTATCTGCTTTCATTTTTTTCACGTTATAAATAAAAAATACTAT  
GCTGGNCGGGCGCGGTGGCTCACACCTGTAATCCAGCACTTTGGGAGGCCAATGTGGGT  
GGATCATGAGGTNAGGAGTTCAAGACCAGCCTAGCCAAGATGGTGAAACCCCGTCTCTAG  
TAAAGATAAACAAAAATTAGCTGGGC

Sequence 480

GCGGTGGCGGCCCGCCCGNCGGTACAGATGCAAACGGAGGTGTAGACTGNCGAGCTGCC  
AAAGTGGTGACAAGCAATCCAGAGGACCATGAAAGGATCTTAATGCAAGTCATGAACCTG  
AATGTGCCGATGAGGCCTGGCATTCTTGTCCAGAGACAGAGTAAGGAAGTGTGGCCACA  
CCCTTAGAAAACAGAAGGGACATGGAGGCAGAAAAAAAAAAAAAAAAAAAAACGTAC

CTN

Sequence 481

ATGTTTTGTGGCCAAGGTGAGGGCTGCAAGTGTTTTCTAAGGGTTGAAACATCANAATAA  
AGGTATGGTGGCAAGTCCTCCTTCTGCTAGGCTGGCTGGCAAGGCCCTATGTCTTGACCT  
AGGTGGTAGTTACAAGGGTATTTTATTTGCTTATAATAATTCACTAAACTATGTTATT  
TGAGTNAGATTTTTATGTNGTGNGNCNTTTAATTTACACAAAATTAAANCAAAAAGNA

A

CNAAANGTTGCNCTCNGNCTCGGNTTNTAAGTAAACCTAAGGTGGGA

Sequence 482

CTGAGAGATCCCCTCATAATTTCCCCAAAGCGTAACCATGTGTGAATAAATTTGAGCTA  
GTAGGGTTGCAGCCACGAGTAAGTCTTCCCTTGTTATTGTGTAGCCAGAATGCCGCAAAA  
CTTCCATGCCTAAGCGAACTGTTGAGAGTACGTTTCGATTTCTGACTGTGTTAGCCTGGA  
AGTGCTTGTCCCAACCTTGTTTCTGAGCATGAACGCCCGCAAGCCAACATGTTAGTTGAA  
GCATCAGGGCGATTAGCAGCATGATATCAAAACGCTCTGAGCTGCTCGTTCGGCTATGGC  
GTAGGCCTAGTCCGTAGGCAGGGACTTTCAAGTCTCGGAAGGTTTCTTCAATCTGCATT  
CGCTTCGAA

Sequence 483

Table I

GCGGTGGCGGCCGAGGTACTCTTCAAAATTGTCAAGGTCATGAAAGACAGCAAAAAGTGA  
 AGAATTCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGACTGGCNGGGCAC  
 GGTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGGGAGGCCGAAGAGGACAGATCA  
 TCTTAGGTTGGGAGTTGGAGACGAGCCTGACCAACGTGGAGAAACCCCATCCCTACTAAA  
 AATACAGAATTAGCTGGGTGTGGTGGTGCATGCCTATAATCCCAGCTACTTGAAGGCCT  
 CGGCAGGAGAATCACTTGAACCCGGGAGGCANAAGGNTTGTGGTGAAGCCAAAATTGCGCC  
 ATTGCACTCCAGCCTGGGCAACAAGAAGCCGAAATTTCTGTCTCAAANAATAAANAACAA  
 AAAAAATAAGTACCTGCCCGGACCGGCCGCTTCTANAAGTGTGGGATCCCCCGGGCC  
 TGCAGGGAATTTGATATTCAAGCTTATCGGATTCCGTNCGACCTTCGANGGGGGGGGCC  
 CGGNTCCCCAAGCTTTTTGGTTC

Sequence 484

GATGTGAACAAATGTGTCATTGCTCTCCAAGAGAAAGGATGTGGATGGCCTGGACCGCAC  
 AGCTGGNGCAATTCGAGGCCGGGCAGCCCGGGTCATTACGTAGTCACCTCAGAGATGGA  
 CATCGAGCGGCCGCCGGGCAGGTCAAGCTTTATTGGGCAACAGCAACGAGCCACGCT  
 GGCAACAATGAAAGTAGAGTCGCTCAGAAACACGAAAGATCATATGTGTGCATCACAG  
 CATCGAGAATTTAAATCATCTGGAAGTTCCTGCTAAATTAAGCATACTGTGCCNNAGCT  
 CCCCTCTAATCAAAAAACGCTTGTCTGGNGAAAAATTTGCATGNGGNTTACAGAGAGA  
 GAGATCAACCAGGTGAGGAAATCACAAGACTTTACATGAGTTTACAGTTAACCCCCCTG  
 CACCAAAAAATAAATTAGCCATAATTTGGTT

Sequence 485

TCCCGNGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGAGGATACT  
 T  
 TCATTTTTATTTATATCGTGAGGTATTGTTTGGATTGTTACAATGAACTTGCATTTCTT  
 TTGTAATGAAGAAAAATAATACAGAGGAAATAACAACAATAAACCTTTGGCCTGGGATTA  
 TCATCCGGGCTGGGAAATTCATGTTGGGATGGCAAGGTTTTATTGATAACAAGGTTATT  
 TTTTGGGGTTTATTATTGCAAAAAAAATTGTTTATTGGGAATTGCCCTCCTATTG  
 G  
 CTTGGGCACCTTGCCCTAAGGGCCACTTTTACCAAGGGTATTTTCATCCCTTAAATCCC  
 TCACCAAAACCAGGCCCTATTGGAAGGGGTAAATCAATTGGGGTCCCCAAGGTTTTACCA  
 GGAAAGCCCTTTTGGGGGNGGGGGGAAGAATTATTTGGGCTTTGGGATTATTACTTTCT  
 AATTTTGGCCACCACCATTTTTTTTGGTTGGGGCAAAGGACCGGTTTCCGTAATCCGG  
 GCTTGGGTGGATTTACCTTGGGTCAAAGGAAGCTTCTCATTGGGGCCAAGGGAGGTTT  
 CCCTAATTTGGTTGGCTTGGNAAAGGAATTTCAAAATAATTCAAAAAATACTTAAGAAA  
 TTTTTTNNCCCCCA

Sequence 486

TGGCGGCCGCCCGGGCAGGTACGCGGGAGTGTGGATNGAACAGAAAATTGGAATCATAG  
 TCAAAGGGCTTCCCTTGGTTCGCCACTCATTTATTTGTAAGTTGACTGGGGTTTTTTCT  
 G  
 CTTAAAAATTTCAATTCTCGTGGAACAACCGCAGAGTAGAAGGAGAGGGTGACTTTACC  
 GAACTGACAGCCATTGGGGAGGCAGATGCNGGTGTGGAGGTGTGGGCTGAAGGTAGNNGA  
 CTGTTTGATTTTAAAAAGTGTGACTGTCAAGNTTGTATCTGTTGCTTTTNTCAATGATT  
 C

AANGNGATACAAAATGGGGCTTCTNTCANTCATTTAAAAAGGAAAAACGCCGACCATCCT  
 TTCTAAGGATTCTCTGTGGGAAAAATGGACTGTCAATTAATTAAGGCGGGTTTT

Sequence 487

CCCCAGGGTTCAAGTCCCAAGGGGCCATCCTGTCCCACCATGCAGTGCCCCTAGCTTAGA  
 GNCTCCCTCAATTCCTTGGCCACCACCCCCCACTCTGTGCCTGACCTTGAGGAGTCTT  
 TGTGTGCATTGCTGTGAANTAGCTCACTTGGTGATATGCCTATATTGGCTAAATTGA  
 AA  
 CCTGGAATTGTGGGGGCAATCTATTAATAAGCTGCCTTAAAGTTCAGTAAGTTACCCCTTA

Table 1

GGGAGGGCCTGGGGGGAAAAGGGTTAGAATTTTGATTTCAGGGGTTTTTTGGTGATCCC  
TGCCCGGGGCGGCGCGCTCTAAGAACTAGTGGGATCNCNCNCGGGCTGCAGGGAATTCG  
ATNTCNAAGGCTTAATCGATACCCGTTCCGACCTCGAAGGGGGGGGGCCCGGTACCCCAA  
NCTTTTGGTTCCCTTTTAAGTGGAGGGGTTA

Sequence 488

CNCGNGGTGGCGGCCGAGGNACTTTGTTTTTTTTNTTTTTTTGAGGGTGGCTTTAT  
TT

TCAATATTTGCTTATTAATATTTTTCTTATTTTATAATGCAATTACAACNGNTTTAGGA  
GACAAAACAATATAAACAAAAGAATGTTAAATAGGTTTTTTTAAAAATAAGCTTGGTT  
GGCTTTGCAANGGAAAGTCCATAATAANTCTTATCCCCCCCCAATATTAAGTTTATT  
A

CTTTNGCCACNTAGAGACCCAAAAAATAGCTTATTGGGGAAAAAAATTANGTTATTTAAA  
AATANGCCTTAAAAACCAAGGAAAAACCCCTACCAGGGCNTATTAAAAATTAAACCA  
ATTAATAAATTACCAAGGGTTTAAACCTTTTAAATGGGNGGGATNGGCCTTTAAAAACC  
AAA

Sequence 489

NGCCGACCGAAACCTGGTGAAGCCCTTTGGGCGATTGGTGATCACCCCTAGATCCGTGAA  
AGCTGGCTGCCCCCATCCGGGCAAGCAGGGCCAAGGTGGCATCTTACATTCCTGGAA  
CCCACCCAGTAACAGCAGCAGGTATTTCTTCTGGGTAAATGAAGAGCCTTTCGAAAAAAC  
TTTCTTGCCCTCAAAGTATTTACCATAAATCTCTTTAAAGTGGACATGGTTCAAGAA  
T

CAAGNGGGCTCAAGAAGTTTNGAAAGTAAAGNAGGTCATTTTCTTAAGTTTCAAGCTT  
TTCAAGTTTTGNTATACTTTTCAAGCCCTCTGGCCCCCTTTTCAAAAAGAATTTTCTT  
G

GGAGGAGGTCCAAATTTTTTTCTTTTNGTTTNCCTAACNTTTCTTTTTTT

Sequence 490

NCCGCGGTGGCGGCCGAGGTACCTGATTTTATTTTCNAGTTTTTCATCCGAATCCACTGGGG  
AATGGGACGATTTTGCTTTTGTCTTGGCCAGGAATCGCTTAATCCTGAAAGTCTTG  
TG  
AGAAGACATGGCGAGCAGCGGAGTCAAGAACACACCACGATGGCGGAGAAAGGAAGAGGA  
GGCCCCGCGTCTGCCCCG

Sequence 491

ACTCCCGCGGTGGCGGCCGCGCGGGCAGGTACAAAAAATAAAAAGGAGGCTGGTGGGAG  
AACTGCTTGAGCCCCAGAGTTTGAGGTTACAGTGAGCTATGATCACATCACTGCATCCCA  
GGCCTGGGCGATGGAGCGAACTGTCTCTTAAAAAATGGCAGGGAGTTGGGGAGCTGGGC  
AGGTGCAGTGGCTCATGTCTGTAATNCCAATACCTCTGGGAGGCCAGATGGGAGGGATC  
ACTTTGAGCCCCAGGAGTTTGAGACCNCGCCTGGGTTACACAGGGAGACCCCCGCTNAAA  
ATTTTAAAAAANTAGTCATTNCTTAGTGGGTGCNTTCCCTGTNGTNCCCCACTTCTTT

G  
GANGGTTTNNGNCCAAGGATTTCTTTTNGCCCCCTGGANGGACAAAGGCTTTCANTGAGC  
CTTTTTNATTTTTACCCCTTGGCTTTTAAACCTTGGGCCATATNAATTAGAANCCCTTN

T  
CTTTTAAAAAANAAAAAANGGGGGNGGGGCNCNCCCCCTNTTTTTTTTTTGCCCCA  
ANCNCCCNATTTTTTTTTTT

N

Sequence 492

TCCCGCGGTGGCGGCCGAGGTACATGAGAGATAATGTTATGACAAGAATAGTTTCTGCAA  
CATTAAGTATGGGTCAAAAAAAGAAGAAATGGGCCAGGCGCGGTGGCTCATCCCTTTGGG  
AGGCTGAGGCAGGTGTATCAAGGTGAGGAGTTCGAGACCAGCCTGACCAATATGGTGA  
AAACCCATCTCTACTAAAAAAACACAAAACCTTAGCCAGGCATGGTGGTGCACGCCTGTA  
ATCCCAGATACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGTGGAGGTTG

Table 1

CAGTGAGCCCCGAGATCACGCCACTGCATTCCAGCCTGGGCAACAGAGCAAGACTCCATCT  
CCCCAAAAACAAAGAAATGACTTTAGACAAATGGCTTGAATGAAATTACAAAGAGGAGGT  
GCATTAAAAATCCCAGCAGTAAAANCTTTTGAAGAATTAAAATGACAGGCTAAAAATAA  
ATAATAAATGTTCTTTTT

Sequence 493

CCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGTGGCGGCGTTGGGTTGAGCGGGCT  
TTTTGGAAGTTTGTGGCGGAGTTCTGTGATATGAGCAACAATGGACCAGAAGATTTTATC  
TCTAGCAGCAGAAAAACAGCAGACAACTGCAAGAATTTCTTGGGCAGGGCCTGGGGAA  
TGCTTTTTTATCTCATATTAGTGCCTGTGATGGCATCTTTCATCTAACACGTGCTTTTG

A

AGATGATGATATCACGCACGTTGAAGGAAGTGTAGATCCTATTCGAGATATAGAAATAAT  
ACATGAAGAGCTTCAGCTTAAAGATGAGGAAATGATTGGGCCATTATAGATAANCTAGA  
AAAGGTGNCTGTGAGAGGAGGAGATAAAAACTAA

Sequence 494

CGCGGTGGCGGCCGAGGTACTCATGGTTGCTGTAAATTAAGGCAGCCGTTCTGCAGGGTT  
TTGCTTAGCCAGGCTCCTCTGAGATCTGGCTATTCTGTCTTGTGGATTTTCAGTCCCC  
GC

GTACCTGCCCGGGCGGTTCCG

Sequence 495

AGATCTCAAGATCTGGACTTCTGTTGAAAAATTTCCCGTGAGGNTNACTTATGTCTG  
TA

AAGATGGGAAAAAATACAAGAACATTGTTCTACTAAAAGGATTAGAGGTCATCAATGAT  
TATCATTTTAGAATGGTTAAGTCCTTACTGAGCAACGATTTAAACTTAATTTAAAAATG  
AGAGAAGAGTATGACAAAATTCAGATTGCTGNCTTGATGGAAGAAAAGTTCCGAGGTGAT  
NCTGNTTTGGGCCAANCTAATAAAAAATTTTCGAAGAATNNCCCCCNCTNGNAANCNC  
CNGNCTTGAAANCNTTTTAAAAAAAAGAAAANGGTTTAAANNGTAAAAGGGGNCCCC  
CNCCCTTTTTTTAAAAAAGNNGAAAAAAGGGGNGGGGGGG

T

Sequence 496

CGCGGTGGCGGGCCGGCCGGGCAGGTACCGTGAAAAGGGCACTTCTCCTTGAGAAGGCCT  
GACAGTGTGTTAATGTCTGCTGGCGCATGGTGAAAATTTAGGGCAACAGTAAAGCAC  
CCTCTTTAATTTCCCTTCTCCAAGCCCAAGCTTTTGCAAGTAACTGGAGCGCTTCCTC

AT

TTGCATAATAGGCAGTTTCAATAACTGGGGAC

Sequence 497

CCGCGGGTGGGGCCGGCCGAGGGTACNNNGGAGGCCTCATAANGGCNNGGNATCNTCGAG  
GNTGGTATNGNACTGNTNANAAAGCCNNCATGGTGGTANCNCACCAAAANCTCACAAGAA  
CAATTGNNGCNGCGAAACAGGCAACAGANTCTGNCATTATATAATAAGGGCGTGGTACGG  
TTGGGGAACCCCGNANGANTCNNTATGGTCTTGNTTNGCAAGCNNTGCATTTTAAATCA  
GACGACCGTNAATTTGTTANCCCCAANCTTNTTANAATAAATCGGCAATCGCGCAATAT  
CTCATCATTNANCNACTGTGGACGACTTGACAATCTTAGTGGCTTNATGGACTTATTGCA  
AAACTCGAGAAAGAACAAACCTAGGGGTGCGCCCTGACCTTCGGAATAATTGTAAGCTA  
TATGTGAGAACTAGCAACAGGGCGTTTCATTTATGNGNAANGGACGCGAANTGGANGA  
TAATTATGTAANAAGNNGGGCCCTACGANTTTGGCCCTTAGACGCCAGGGAAACCGCGG  
GGCNCCATGCATNACNCACTTANGGNAGGGGTANTTCTCCNCACACNCTCNTTTTCG  
ATTTGGANAATANGCTGGGAATNAATCCTACATGACCTGTCAATTTTCGGAGTTATCGCNG  
GCCGTACNNGNCCCCCCCCGGGGGGGGGGGGGGNCCCCCGGNTTANCCCCCAAGCT  
TTTTTTGGTTTCCCCCTTTTANAGGTTGGAAGGGGGGGGTTTNAATTTTGNCCGGCC

GC

CTTTTGGGGCCCGGTTAAAT

Table 1

## Sequence 498

TGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGGGCCTTCCACTTCAGCTGACT  
GAATTTAGGCAGTTCTGGCCACTTCAGTTTCCGCACCCAGGCCTCCTGACCCATGGTATC  
TACGATGAGATCC

## Sequence 499

GTGGCGGCCGAGGTACCTCAATTGATGATTTCTGGTATGACCTAGCAAATACACTGCTTT  
CACTGAAATTTCACTCTTGCAATCTGCTTTGGGTTCCCAATCTAAGACAGAAACATACT  
CATTTTCCATCACTGGACTTCCAGGTTGTTTTCAATTTTCACTGTTACAAACAAGGT  
G  
GCAACATTTATCTACAAACCTCTTGGATATTACACCGTAGGNAAGCTTTCTGGGTTATT  
T  
CCACCTAGTGAAACCTTGCTCAAGTTTGAAGGGGGTANTGTTGGGATNCTTTCATCTT  
TT  
TAATTTAAATTTTACCAACCATGTTGAAAAAGCCCCGACCAATGGTCAAGGGACTGNG  
CAAAGGAGGTGCCACCAATGTTGAATGGGGGNTGGTGGGAAATGGGCAANGCTTCACTG  
NTANACAAGGGTGGCTTGGGGGGACCTCAAGTTTTGGGGGTTCTTTGGGAGNAAAGCCAC  
TTAGNTTTATTAGCCAAGGAANTGTTCTTCATAAAAATTGGGTNTTCTTGATTAGG  
A  
AGACCAANGAAGTTAGGTTNGGGGGGAAAT

## Sequence 500

CGAGCCGGGAGCCATTNANAGTTGTTAAAAGCCTNGGGGGTGCCCTAAATGAGTGAGCCT  
AACCTCACATTTAATTTGCCGTTTGCGCCTCAACTTGCGCCCGCTTTTCCAGNTCGGGGA  
AAAACCTTGTCNTTGCNCAGCTTGCAATTAATGGAATCGNCCCAACNGCCGCCGGGGG  
GAGGAGNGCTGGATTTTGCCGTTATTTGGGGCGGCTTNTTCCCGGCTNTCCTTCCGCTT  
CAACTTGNACTT

## Sequence 501

ACATACTAGCANNGGGTAGCATAAAAGNTGTTAAAGCCTGGGGGTGCCTAATGAGTGGAGC  
TTAAACTTCACAATTAAATTGCCGNTTGCTGCTCCACCTGCACCTGCTTTNCCAAGAT  
CT  
GGGGANAAACACNTGNCGTGCCAGGCCTGNNATTAATGCAATTCNANNNCAACCGCCGC  
NGGTGGGAGNAGGGACGGTNATTGCCGTTAATATGGGGGCCGCTACTTTTTCCCGC

## Sequence 502

NACAAACATTACGAGCCGGGTAGTCATAANAGCTGTAAAGCCTGGGGGTGCCNTAATGAG

## Sequence 503

GCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTATGAATTATTTATTTTCTT  
TCTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGNTTNTGNATCTG  
CCCACAGACGGGGTGGTTCTAGACGGCCGCTCTNNAAC

## Sequence 504

ACATACTTANCCCGGNAGCATTAAAGTGTAAGCTCTGGGNNTGCCTAATGAGGTGAGCT  
AACTCACATTAATTTGCGTTGCTGCTCACTGCCCCGCTTTCCAGTCGGGAAAACNCTTGG  
TCNGTGCCANGCATGCATNTAAATGNANATCGGCCAA

## Sequence 505

CACAACATACGAGCCCGGGAGCATAAAGTGTATAAGCCTGGGGTGCCCTAAN

## Sequence 506

CGGTGGCGGCCCGCCCGGGCAGGTACTCGTCTTGGTGAGAGCGTGAGCTGCTGAGATTTGG  
GAGTCTGCGCTAGGCCCGCTTGGAGTTCTGAGCCGATGGAAGAGTTCACCTCATGTTTGCA  
CCCGCGGTTGATGCGTGCTTTTCGCAAGAACAAGACTTTTCGGCTATGGAAGTCCCCATGT  
TGATGGATCCTGAGGCTTGAAAAAACTGAAAGAGAATAAAATATCTTTAGAGTTCGGA  
ATTATTGAGAAAAATCAAANACTCCCNAGTTTTGATGACCTGNGAAGGAATATTTGNGAG  
GGACNCCANGCCCTTTGGGGNAAGGANTCCTTGACTCTATCTTTTCAAAGGGAATGNAA

Table 1

ATTCCTAGTAACAGGCCCTNTAAAGACTNAANACCAAACCTTTGGACTTCTTGCTTGGATT  
TTCNTTTTTATTCCCTTTTTTTTTTATTNTTTTTTAAAAATAAANAATAATTTAATT  
TTAAACTTGGNACCTTTTCCTTAAATAATATTACCTTTCTNATTCAAAGGTGGGAAA  
N

GGGAAAATTTCC

Sequence 507

GGCGGCGCCGGGCAGGTACGCGGAAATCCCCTAACTTCCTTGCTATCTTCCCATNCCATA  
TTTAGGTTAGATNGAGAAGTGTGTATGTGTGTGTGTGTGTGTGTGCTCNGCACAGTNGA  
TGAAGTGTAAACATAAATTGAAGATATTGGAAAANTACATNAANTTATGGACCAACATGA  
CAATTTTCATTAGGACTTCCTATTANAGAGTATCAGTTTACANNTTGGGTATTAGNT  
A

CTAGTATNAAACATTTTCAAGATACTTGCACTGATTTTCTGGTGGANTAAAAGCAANGGCTT  
NTACAAGTTNTAAGCATGTCTTNTANGNCTATGCTTTGGAATACCAGCTAATAACCAAT  
C

AACAAGNCCAGNAGCCTTAANGTGGTATTTTTTGGTTGACCCTAAAAACATGGAACCT  
NAANGGGTTTCTNCAAAAANTTGCCTTAACCAAATGGAANTAGGTGGGGGAAG

Sequence 508

TATCCGCTTCACAATTCACACAACNATACGAAGCNCNGTTAGCATTAAAGTGTAAANAGC  
CCTGGGGTTGCCCTAATGAGTTGAGGCTAACCTCACATTAATTTGCNTTGGCGCTTAC  
NTGGCCCCGCATTTTCCAGTTCCGGGGGAAAACCNATGATCGTTGGCNCAGGCNTGCCATT  
ANATNGGAATTCGNGCCCAACNCNCCGGTTGTAGGAGGNCGGGTTTTGCGGNAATTTG  
GGNGCGCTTCTTCCCGCTT

Sequence 509

CCNANGTACACTCCCACCACCACCNCATGGTCTCTTTCATATNNCTCAANNNTCAACNTG  
NTCCTGNGGCTTCATAATTNTCCTNTTNCATCTTTTCACTTCNNANGCAAACACCGC  
CT

CNNCTNANGCTNTNNANTCAATNCANTTNNCCTTAATNNAATCACAAANTNTCCTCC  
AT

TACNCANNAANTNTNNNCATTCAANNCCACAATCCNGGTNTTGGTCTNNCTNNNCCACA  
TCANCAAAATCACATCCACCATTNCNATCCNCNTACCTCCCNNNCCNCCCCTCTAAA  
ACTANTNNATCCCCNNNCTNCAANAATTCNATATCAANCTTATCNATACCCTCNACC  
TC

NAANNNNNNCCNTACCCAACCTTTTNTTCCCTT

Sequence 510

CGGCCGCCCCGGGCAGGTACTCTCTGAGCCAAGGACATTCTCATTTAAACAGTTTAAANAG  
GCTGGGNGCNGGATCGGGAAAAAAGAAATATACCCTGGCAGCCGCCTGCCCGGCCGGA  
AAGCGGANAGGGACNCTAANATCAGCAAATTCNCCAGTTTGGATCCTTGTCTTTTCCGC  
CCTTTTCCCCCATTAAATCCANAACCCGTCACATGATAATTAANAAAANGGTTCAAGTTC  
CTCTCCTCAAACCACTTCCNGTAAGAGGATCCCCNCNTACCTCNGCCCCCTCTAAACT  
AGTGGATCCCCCGGCCTGCANGAATTCNATATCAACCTTATCCATACCNTCACCTCA  
AGGGGGGGCCCCGGTACCCAACCTTTTGTTC

Sequence 511

GGGGGAGGGCAGNAAANCAAACCACAGCNCACNGCANGGGCACACANACAATCCCCAGC  
AAAAAAAAAATNNNTNNTNCCAAACANAAAGAGCCTGGCCAGGGGGCCCANACGGGCC  
NNAAGCCCNNGGAACCAATTTTTNTGGGGGCGGGGGCCCCCAAAGGGCGGGAAAAACA  
GCCACGACCCACGGCNCNCAAGCNCAGAGAGCNGGGGGAGACGCNCCAAAAAGCAAA  
ACGGCGGGCCAAANCNNAGGGAGCAANNNGGGGCGAAAAGNNNAACGGAACCANANGAAA  
NAAAANCAAAAANAAAACCGGACCANA

Sequence 512

AGCANACCGCGGNGGCGTTTGCGGGAGAAACNGNGGACCCCCCGGGCTGCAGGAANNCG

Table 1

ANANNCNATTTAGGGNGACNNAACCCC

Sequence 513

NAGNCACCGACGAGACCAGATTANACNTNGGGGGCNGNAAAACCCAGCCCCCCCCGGNC  
ACAGCCCNAAAAGGCCAACCCCTTTTGGAGGNGCNGGGGGANGCAAACNGAAAAANAGCNG  
GAAAAAGNAGGAGNNGAAGCCAAACAGCCAAANNCCNGCCANNAGGAAGNNGNAAGGGTT  
TTGCNANTTTTTNANGGGGGGGGNANCAACCCCCNGAANAAAGNCCGGGCNGNCGNCC  
CNGAACGAGGGGGGGGGGGGGGGGGCNGCAAGANNNGGGNGANCAAAGCNNNNANCGANAC  
CGNGACCNNGNAGGGGG

Sequence 514

ATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTCCGAAATCTTACCTTCAGT  
CTTCTCTGCCACCCAGTCATTTATATGCTTCCTGCACTCTTCAGTGTCTTCAGCAAAG  
GA

CAACTCCTCCAGCTCTGCCTGATAGAATTCTGACAGTATTCTTTAAAGTCTGGAAGGAA  
ATCACACGTCTTTTCTCCAAAGAGTCTGTTGGCAGTTCTAAGCAAGTACGCGGGGTAAGC  
AGGAAGTGAAACCACAGAGCTTCAAAAAAGAGCGGGACAGGGACAAGCGTATCTAAGAG  
GCTGAACATGAATCCACAGATCAGAAATCCGATGGAGCGGATGTATCGAGACACATTCTA  
CGACAACCTTTGAAACGAACCCATCCTCTATGGTCGGAGCTACACTTGGCTGTGCTATGA  
AGTGAAAATAAGAGGGGCCGCTCAAATCTCCTTTGGGACACAGGGGGTCTTTTCGAGGC  
CAGGTGTATTTTCGAGCCTCAGTACCTCGGGCCGGTCTAGAACTAGGGGGATCCCCC

Sequence 515

TTGCCCCACCGGAATGATCACCAAGACACACAAAGTAGACCTTGGGCTCCCAGAGAAGAA  
AAAGAAGAAGAAAGTGGTCAAAGAACCAGAGACTCGATACTCAGTTTTAAACAATGATGA  
TTACTTTGCTGATGTTTCTCCTTTAAGAGCTACATCCCCCTCTAAGAGTGTGGCCCAT  
GG  
GCAGGCACCTGAGATGCCTCTAGTGAAGAAAAAAGTACCTGCCCCG  
GGCGGCCGCTCGACGTGGTCGCGGCCGAGGTACAACCTGCAGTAAGAGGGACGGTTAATTC  
ACAGCTTCCAGCTCTTGGCGCCAGAGTCCGATGCACTCCTGCAGATAACGGTCATTTCCA  
TTTCCGGGAGAACCTCTTTGAAAAACAACCCGGATGAGACTATCTGGCAAATTGCAGCC  
CTTGGCGGGCTTT

Sequence 516

ATTGGAGCTCCCCGCGGTGGCGTTTTGCTCTTGTAGCCCAGGCTGGAGTGCAATGGCAGG  
ATCTCAGATCACTGCAACCTCTGCCTCCTGGGTTCAAGCGATTTTCTGCTTCATCTT  
CC

CAGGTAGCTGGGATTACAGGCATGTGCCACAACGCCTGGCTAATTTTGTATTTTAGTAG  
AGACTGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTCCCGACCTCAGGTGATCCGCC  
CGCCTCGGCCTCCTAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCAGCTATACTG  
TATATTTAAGGAAGTTCCAGCATGTTGCATCTTCTGCATTTATCCCTATATCATTAATA  
GAACATAAAGTTATCATGGTGTTGGGTAAATTAGCGAAATTCAACCCCTTCTAAGGTTT  
AAGGGGAAAAGGTATTTTAAAAACAACCTTAATNAAAACCTTACCCTTCTATACAAGA  
GTGGATTCCCCCTTAATTAGGGATGCATGGTTGATTAAACCTCNAGATACAGCTTTT  
TT

GCAGTAATGGGGGGGNTGGGT

Sequence 517

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTGTGATCCAGTTCCTTGCTT  
TTCAACGAGAAGGATTTGGACGTCAGAGTATGTCAGAAAAACGCACAAAGCAATTTTCAG  
ATGCCAGTCAATTGGATTTTCGTTAAACACCGAAAAATCAAAAAGCATGGATTTAGTAGCT  
GACGAGACTAACTCAATACAGTGGATGACTAGAAAGCAGGTTCTCCAGCAGAGATGTG  
GGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCATTGGAGAGTCTGCAGACCGCAGTTGCC  
GAGGTGACTTTGAATGGGGATATTCCTTTCCATCGTCCA

Sequence 518



Table 1

AAACCCACCCCCAGGGGAAGGGNNGAAGGGAGGGGCTTGGAGGGCNGAGGGGAAGC  
CCCCGAAAANGACNNCCCCCAACCAGGGGANAANAGACCCGNNAGGGACAGGCNAAGGA  
GAGGGAACAGGGGAACCANCACTTTTNTNTTTTTGGGGGGCACNNGGGCNGGGACCCCC  
NACAAAAAANANCCCCCGCCAGGANGGGGGGGGGGNNAAAGGGNAAAAAACA  
AGACCCAAAGAAAAAAC

Sequence 519

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTGTGAGCAATTTTGACAGTCAT  
TAATGTTTGTGATAATTTTAAATAAAGTGTCTGGGTTTCAGAATAAAAAAAAAAAAAA  
AAAAANCAAAAAAAAAAGTACCT

Sequence 520

GGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTATGTTGAATAAATGTTTTTCC  
CTTTAATTTTTCTGCTTCCCTAGTGCATAGAATTGAAGTCTTAGGGAGTTTGAGGCT  
G  
CAGTGAGCTATGGTCATGTTACTGCGCTCCAGCCTGAGTGATGGAGTGAGAACCTGCCTC  
AATTAATAAAAAAAAAAAGAAAGAAAAAACAGTGCAAGTGGGCTCATGCCTGTGATCCCAN  
CAGTTTTTGAAGCCAAGGCAAGAGGATTCCAGGAGTTCAAGACCAGCCTAGGCAACCT  
TAGCAAGACCTTGGTATCTTCCCAAAACCTTTAAAAATTAGGTTGTGTGTGGTGTGCC  
TGGCTGAGATGAGAGGATTGCTNGAATCCAGGAANGTGGAGGCTGNAGTTGAGCTATGA  
TTNNGGCCNCAGCANTTCCAGGCCTGGGGNACNCCAGGGGATACCCTGGTCTTTAAAAA  
AAAAA

Sequence 521

CCGGGCAGGACGCGGGCGGCTCTTAGCGGTGGATCACTCGGCTCGTGCGTCGATGAAGAA  
CGCAGCTAGCTGCGAGAATTAATGTGAATTGCAGGACACATTGATCATCGACACTTCGAA  
CGCACTTGCGGGCCCCGGGTTCTCCCGGGGCTACCGCCTGTCTGAGCCGTCGCTTCCAAA  
AAAAAANAAAAAAGGTCCCT

Sequence 522

AGGTACACCTCCCCAAGCTCTCTTCTCCGGCTCTAGCTATATAAGACGTGCCTGCTTCC  
CCTTCGCCTTCCACCAAGACTGTAAGTTTCTGAGGCCTCCCAGCTTCTGTCATGCTTC  
CTGTGCAGCCTGCAGAACTGTAAGTCAATTAACCTCTTTCTTTATAAATTACCCAGT  
C  
TCAGGTAGTTCTTACAGCAATGTGAGAACAGACTAACAACAATCAACTCATGGCTTTAA  
CACAAAAAATAGGTAAGTTCAAAATTAACATATTACCACATCCAACCTCTTTATTCTT  
GAGAAAACAAAAAGTCCAAAATCAAAGGAAAGCACCCGTTTTAAACCCTCATATCTTTC  
TCAGGGCTCACTGCAGTCTGGCCATATCTCAAGCAGGTC

Sequence 523

TTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGGAGTGAGAGGGAACGA  
GAGTAAGAGAAAGAAAGAGTGAGGGGATGTAACTCGAATAAATTTCAAAGTGCCTCCG  
AGGGATGCAACGGGGCAAAAAGTGAAGTGTTCAGGCTTCAGATTGTAAGTGACGATCTGA  
GGAAAAATGAGGTTTGTGTGATTTTGTAAATGCATCACCACAGCGAATGGCTGCCTT  
AGGGACGGACAAAGAGCTGAGTGATTTACTGGATTTCAGTGCGATGTTTTACCTCCTGT  
GAGCAGTGGGAAAAATGGACCAACTTCTTTGGCAAGTGGACATTTTACTGGCTCAAATGT  
AGAAGACAGAAAGTAGCTCAGGGTCTGGGGGAATGGAGGACATCCAAGCCCGTCCAGGA

Sequence 524

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCTTGAGGAGTGAGACTG  
CAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCTGAGTTCATCAAGAGGA  
CCATCTTGAAAATCCCAGTGAATGAAGTGAACAATCCTGAAGGCCTGGGATTTTTGT  
CTGAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGTAGTTCAGCACT  
TGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTAGACATCA  
TTTGTAAGTGCTGGAGTGACAGTAACGCCATCTCAGCTACCGCGACCTCTGCCTCCTGGA

Table 1

TTCAAGTGATTCTCCAACCTCAGCCTCCCGAGTAGCTGGGACTATAGCAGTGCACCACCC  
ATATATGCAATTC

A

Sequence 525

AATTGGGGGGNAAACNACNGGCCCCACGGNCCNCNGGCCAGNGCACCCATTTTTTTNGN  
GGGNGAGAANNNGGCCACCCNGACCCGGAGAGGAAGGAGACNGTTTTTNAAGNNGCCNC  
GGGCCACACNCNAAAAANCGACCCGCAANNNGCACCGACAAACANCGGNGNGCNAAAAA  
NAACNNGAACANCCCGAGGAAACCGCCCNATTTTTTTTTTGGGGGGGNCCAANGAGGGGC  
CCGNCGCCACAAAAAAAACCAAGGCCCCNNGGGGGGGGGGGGGAGCCCAANANNGGGG  
NGGGGGC

Sequence 526

AACTTAATGTCTTCTTTTTTTTTTCACTGGCTTTTTCATANATCGAGACATGTAAGCA  
GCATCATGGAGGTAAGTTTTTGACCTTGAGAAATGTTTTGTTTCACTGNCCTGAGGAC  
TATTTATAGACAGCTCTAACATGATAACCCTCACTATGTGGAGAACATTGACAGAGTAAC  
ATTTTTTNGGGGNAAGAAGAATCCTACAGGGTCATGNTCCCTTCTCCTGTGGAGTGGGGG  
GGNAGAAGGGGTATGGCCCCAGGGNNGGCCATATTACTGACCTCTACAGAGAGGGCAAA  
GGAAGTCCAGTATGGNATTGCAGGATAAAGGCAG

Sequence 527

AGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGG  
ATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAAGTCTCCAAATAAG  
AACAAGGACACACATTGTGTCAGGTACGAAGATCATTGAGTTTCCATATGCTGAAGGTT  
TTTCCACTATTCACACTCTGTGGCGTAACCTTCTTGAATATAACCCCAAATGTCACCCA

A

TCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG

T

TTT

Sequence 528

AAGGANAATTTTTTGGGGGGNCAAAAAACCCCANCCCCCACAACCANGCCNAACTNA  
ATCTTNGGNAAGAGGGGAAANAGGCCCAAAAGGACAAAAGGNNCANNANAAAAA  
AAANNNCAAAAANCCGGCCAANAANANNNCAAAANNNNCCCCAATTTTNTTTTTTGG  
GGGGGGGAAANGGAAGNNACCCCAANGNACGCAAAACNACCCAAACAGGGGGGGG

Sequence 529

CCGCGGTGGCGGCCGAGGTACATTGTATACTGCAGTGTCTGCTACATGGCATTGGACAGG  
ACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGGAATGGCAAC  
CGTGACCAATTTTTGGCTCAAGTTAAATACCAAAAC

Sequence 530

CGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAAACCCATTGGATTAATTAGA  
GGTCTGTCTGAAGGAGTTGAAGCTTTATTCTATGAACCCTTCCAGGGTGCTGTTCAAGGC  
CCTGAAGAATTTGCAGAGGGGTTAGTGATTGGAGTGAGAAGCCTCTTTGGACACACAGTA  
GGTGGTGCAGCAGGAGTTGTATCTCGAATCACCGGTTCTGTTGGGAAAGGTTTGGCAGCA  
ATTACAATGGACAAGGAATATCAGCAAAAAAAAAAAAAAAAAAAAAAGTACCTGCC  
GGCGGCCCGNTCTAGAACTAGTGATCCCCCG

Sequence 531

ACATTACNAAAAGGAGAGGNGGCCAGNNNAAACACNCNGAANCCANCCNNGCCCNGAGN  
AACAAANCACNGGAGAACAAAAACGAAAAACAGCAGGNCCNCNNNNAAANCCAANNCAN  
ACAAAAANGNCAAGNAGAACCAAAAGCCANGNGNCCCGCCAANAAAGCCNCCCCAAAG  
CAACAAAGAGGNCNGCCCAAACCNCCAAAAAACAAACCCCAAGANGAAAAAAACCA  
AAACCCCNAAANGNAAANGAAACANCAACCGGGGGCCCCCAA

Sequence 532

TTTTTTATTCAATTTGCGATNGACAGNNNTAGNTTNAATGTTNGTAACACTCTTAGAN

Table 1

N  
NNCTGGTTTGTTTCATTTGACATNGGGGCTGCACCAATTTTTATTACAAAAATCAAAAAA  
G  
TAAAAATTCTTACAATATTTGCAGAGTATAACCACTAGTTGCCTAGACAAAAGCTAATT  
T  
CTACAAAATCAAAAACCTAATGCAGTTTTATTAAGAGAGTCAAAATTCTCTCAGTTAAC  
T  
GGATATACATAGTGGTATATATCTTAAAGCAGAAAACCCCAAAAAACAAAAACAAGGAAA  
AAAGAAAATACATGTCAACAGTCAGGTAATATTTTACCTGACAGGTTCTACAAATAGG  
GGATTTTCACTACATATAAAGGAATCTGTTACATGGGGGTAAACTTCCAGAGACCAAGT  
AGGAAGNGGTGGAATAAAAAACCAATAAATNCAAACGCCACCCAGGCTGG  
Sequence 533  
CCAGCTGCTNGCCTGCAAAGANGAGCCTCCTNNGGGGGGGGNAAAACCCCNCCCNANCC  
NGGANCTTGGCCTTCACANTNNCATGAGGGGGCACTGGGCGCCACCTCANGGGAGAAGGG  
CTTGCCGGGAAGGGNTNNCACGAAGAACTGCATTNNGACCTGGNAGCGGAAACCAGGATC  
CTGCCAATNTNTNACCACGGGGCACCCACAGGGACACAAACAAGCNCACCCAACAAAGC  
CAACCGCCCCNNCCCGNGGACCGCCCCG  
Sequence 534  
CCCGCGGTGGCTCTTGGGGCTAACCTCTCTGCAGATGAAAAAGCAGCTGAAAGGAGTTTT  
TGGCGNCACCAATAACCTAAACTGAAGCCTGATTACTGGAGTGACAACTACNTGAAA  
GAAGCAGAAGCCGTTTGCTTATTATCGCCGGACACACACTGCCAATGAGCGGCGCGGGC  
TGGTGAATGAGGGATCTCTTTGAGAAATTAAGATCACNTTTGGGATTACNTCATT  
TT  
CCAAGGTTTCCAAAAGTCTCATTCTTACTCGAGCCTTCAGNGAAATTCAGGGACTAACAG  
ATCAGGCAGACAAATTGATAGGACAGAAAAATCTCCTGACTCGAAAACGGAATATTCTGA  
TACGGAAAGGATCGNCTCTTTTCAAGTAAGACAGAAGAAGTGGGCCTGAAGAAGCTAGAGG  
ATATTTATGCAAAACAGCAAGCACTAGAGGCCCNNNNNNNNNNNNNNNNNNNNNNAAAGN  
ACCTGCCCGGGCCGGCCGCTCTAAACCAGGGGGATCCCCCGGGCTGNAGGAATCNAAT  
CAAGCCTAATCGAAACCGNNACCCNCGANGGGG  
Sequence 535  
NGGGCAAAGGGAAGNAACAGACACACNCTNNTGGGGGNGGATNAAACCCGGGACCAGAGG  
CTCAGNNGGNGGAGAGANCCCTGCTTACCCACCAACCAGAACGNGGCCCGCCNAGAGGCT  
GGAACNGAGAGAAAGAACNCGGGGCTGGCNNAAGAAAANANAGACANNNCACAAAAGCC  
NAGTNCATNTTTNNTNCCGNNGGGACCGNNCACCCGACAGAAANANNNCACAAAGGCCG  
CCGGNCAAACGGGGGGGAGCACGGACNGTCAGGNCNCNNGGAAGGGGGCAGCGCAACCCG  
CAGGGCNCNCCCCCNGGCCNNGGAGAACAGGGGCCCNNCNAGGGGGCCNAGGGAC  
CGCCAGGCNNGNACAGCCAGGAAGGCCAAAANCAAGAGGGAGAAGGAGAAAGGNGNAAAA  
AAGAAAAGGGGAGGNGG  
Sequence 536  
GGGGANCCCGCGNGGCANATTGGGGGGGAACACACAGCAAAGANACGNACAGCCTGAG  
AGCTTTCCTTGGGGGGGCTTAAACCCCCCGNCCGNCCATCTATCCATCCATCTGCTCAT  
CCNTNCTCCATCTGCGCAACAAACGCNAGAGAAANCAATCCTTGGGGCAGATACTGGGGC  
TGCCCTCAAGGAGCTNNNATAGAGGNCAGGGGACCTTTGNCGCTNTTTNCTAGGGGANC  
Sequence 537  
GGNCCCCCGGGCTGCAGGAANNCGANATNTNCTTTAGGGNGACCAAAACCCCC  
Sequence 538  
GGCACCCCGCGGNGGCCCTNNGGGGGACAACNCCGCGCCCGCCAGNAACAGGCCACAGCC  
CAGAGCTCNNTCGGGGGCNAAAAACCCGGACAAGCNGCANGCGGGGGGACAGGNTGCG  
GGNCNTGGAACACTGGACNGGATGGCACANGAACAGAACTCCGCTCCGNTTGGCTGCC  
CAAGGANCCCAACNCATNCTAANCAGCGANACNGAGGAAACGCNTTTTANNCCGAG

Table 1

GNACNANNNCANAGAACAGGCCNACCGCAAGGGGCANACCAAGAAAGGGGGGCGNAAGGAN  
AGNNAGGGGGNAACAANGNACCANAGGNCNNCAAANGNCNGACANNANCNNNACCCNAC  
CNCNAAANGCCCNCCNTNNCACAANANCNNNCCNGANNCGNGNAAANAGAAAAACAA  
CAAAGACANGGAANNACCGGGCANANNAGCAGAACCAACCGGAAAANGCANGGAGGGNN  
CAAAAACACCACCNACAGGAAGGAANAACCCAGAGGAAAAAGGCCGAAAGAAAGAAACCG  
AAANANAAGACCNNGGGCCGAAAAAGCANNACCCAGGAGGAACCCACNNNCACGAAANCAGA  
ANNNCCCCCNCCAACCANNAACAGGGGGAAAAAANNCNG

## Sequence 539

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCTTTTATAGTTTT  
TTTGTGTTTGTGATTTTTTTTTTTGGTTTTGTGTTTTGTGTTTTTCTTTTTT  
TTTGGTCTTAGAAAATCTGAGACACGTGAGGCCAGACAAAGCAAGGCCGGGGCTGATGG  
CCTGGCTGCCTGGTGGTTGATGGTTTTGCTCCCCCTACCTTTTTTTTGTAGTTATTCT  
G  
ATTGATTTTTTTCTTGGTTTCTGGATAAACACCCTCTGGGGACAGGATAATAAAACA  
T

GTAATATTTTTAAGAAGGAAAAAAAAAAAAAAAAAAAA

## Sequence 540

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTATTTGCTAAAAAATGCT  
AATGATATCAAACCATCAGCTACTTGAATCTTTTTGCTGGTGGAGGGTTTTGTCTCA  
A  
TTTTGGTGGCTGCTGACTGATCAGCGTGGTGGTTGCTGAAGGTGGAGTGGTTGTGGCAA  
TTTCTTAAATAAGACAACAGGCTGGGTATATTGCCTCATACCTGTAATCCCAGCACTT  
TGGGAGGCTGAGGTGGGAGAATCTTTGAGGCCAGGAGTTAAGACCGGCCTGGGCAACA  
TGGTGAGACCGTGTGTCTGCAGAAAAATGAAAAGAAATTGGCTGAGTGTGGGGGTGCATG  
CCTATACTACCATCTACTAGGGAGGGTAGGATGGAAGGGTTGCTTGAGCCCAGGAATTCA  
AGGNTGGGCCACTGCACTCCACCCTGGATGGCAGAGTGAGATCCTGCCCTCAAATTTAA  
ATNA

## Sequence 541

TTTTTTTTTTTTTTTTTTGTTAAAGACACAAGTAGTGATATATCAACATCTGTTTAACT  
CGTGACCGTTTCTTTTTTCACTTCTTTTTCTTTTCAGTGCTTCTTCTTCCATTACC  
TTTTCTGATTTCCACTTTCAGTTTCCATTCTGTTCTGCTATCTTCTGGTAGCCACAGCTC  
A  
GCTCCAATCTGCGAAATACGGCACTCTCTTTATTGACTACTGCTTCTCTCGCCCCCGCG  
CGGCCCCGGGAGTACCTGCCCGGGCGGCCGCT

## Sequence 542

GCCGCCCCGGGCGNGGNACAAAATGTTAAAGACGTTGTTTGTATNTGTAAGGCTGGTGTATT  
CAGAGAGCATNATCTCTTATTCCTCACTTTCACCCCCGTATTTTGAATGACCATGAT  
C  
AATGTTTNTACTTTTTGTNTAATGGGGTGGGGTGGAGTGGGGGCTATCTGAGAGTCANCC  
TGAGGTCTTTAGAGGACCANCTATTGTATCACCTTGGATACTTGAAGTTT

## Sequence 543

CAAANACTTTGGCCANANTAAATNGNTGGAACANAGGTTTCTTTTTAAAAAAGGAAG  
GGTTAAAGAAGCCAAACGGTNGCTTTTNGGGGGAANGCCANGAAAGAAAAAAGGGGGGA  
GNAAAAAGGCCATGNCCATTCTNTGCCCCCTGGNAATGGAAGCCCCANGGGGGGNGAC  
ACCAAGCNAAANNAAGAAAAGGCCCCACCTTNATTCTCAATTTTTAAATTCCTTTTA  
A  
CCAGAACATTCTTCTTTTGGCAACAAGNGGTCTTCCCCTTNGGGATTGGTCGGAAANAA  
TCACCCATTGGAAGANTGAGAGAGTNCAGTGGGAAAAGCGGCCACCTTATTAGTCCCC  
TCCCCTTTCTTGGCGTNTGGCAACCAAGNTTNTTCTTGGCGGGGCGTTGGGGACCCCG  
TNTTCAAACCAAGTAAGGAAGGGGCCTTTAATTTTTGGGGACCTTTATTAATGGCTT  
N

Table 1

AGAAAAANGCAATNGGTAAGNGGCCTTTCNTTGNGGGNGAATNAAGGGGCCCCACGGAAA  
AGCTTTTTCCCCCTTGAATTGTACCCCGCCGGNACCTTTTTCCNAANGCCCCCTTNNC  
CCTTTANAAGGACCCCCCAAAGGTTGGNTNGGGCCCCCCC

Sequence 544

TCCGCGGTGGCGGCCGAGGTACCAACTTACTTACAAATTTAATACTGCTTCAAGGTAT  
TTAATCTAAAATTTTACCAACTTTGATTTGTCTGGTTAGGATATTTTGTTTTAGTGGATA  
TGCTTTAATTCGGATCAATTACTGCAGTAAATCTCATCCCTAAGCATGAAATGTTGTCA  
A  
CAAATACCCAGTTCATTAGTTATCAATTAGCCCAAATAAGAGATACAAAGTATAACAG  
TGACCAACCTTGACCTGCCCGGGCGGCCGCTCGACCACTGACATAGACTGAAAGCAAGA  
AGAGTGCTGTGTTTGTGCTATATCCCTCCAACACCTAAGGCAATGCATTTACATC  
TT

GCTGAGAGCAGATAACCTCAATACCTGGGAAGTAGAAAAT

Sequence 545

AGTGAGGGGTAAATTGCCGCCGCTTGGGCGTAATTCATGGTCATAAGCNTGTTTCCTGT  
GTGAAATTTGTTATCCGCTTCACAAATTCACACAACATTACNGAAGCCCCGGGAAGCCAT  
AAAAAGTTGTNAAAAAGCCCTGGGGGGNGCCCCCTAAATGGAGGTGGAGGCTTAAACCTT  
CAACCATTTT

Sequence 546

GCCGGGCAGGTACCTGATGCAGGGAATTGAAGCCAGACCCAAAACGGGCAACCCAATAGG  
ATGGCCATCTGCCCCATTAATGCCAGCTTGTCGAAGTGAATTATTAACAGTGCCCCCTT  
TCACTCTCCAAAGAGTNCCTTGTNCAAACAGNTTAATTGTGGAAGTCGCCTTCAAGATGA  
CTGGGCGGGTAAAGGAAAGTGGGAGTGAGGGAAGCAGGGTAGGTGGAGGGTGTGAAAGGG  
AGAGGGCCTCATCTCAGGGTGGCTTGGACCTGCACCAGCATCGGCCTGCATGAAATGTGC  
TCCTACTCTTGCCCAGGCTGAGTATCAAAGAGAAGCAAGAAATCTAGATAAAAATNCAA  
TCCAGAAACA

Sequence 547

GCGGCCGAGGTACAGGTAAGCCCTGGCTGCCTCCACCCACTCCCAGGGAGACCAAAAGCC  
TTCATACATCTCAAGTTGGGGACAAAAAGGGGGAAGGGGGGGGCACGAAGGCTCATCAT  
TCAAAATAAAACAAATNACAAAAAGTTATTTAAAGGGCGAAANGATTTTAAAAA  
ATTTTTTGCAATTTACCAATAAATTTTTTACCACCGAAAAAGCCAAANTGGCCTTANT  
A  
CACCCCTTCNCCCCNTGNTGGTGGGGACCTTTTGGGGGAAGGAAGGGNACCTTGGGGGNC  
CCAATTTTCTTCCCTTTTAAAGAAAGAAGGAAAAGTTGGGGGGGTNGGGGCCTTTTTTT  
TAAGTGGAATNGGGGCTAAAGGGGGGAACCTTTTCCCCTTGTTAAACCAAAACCGCCAA  
TTTCNTCCAATTAATTTTTTGGGAAATTTGGAACCTTAATTTAAAAA  
ACCCAAAATTGGGTGGCNAATTCAAAAAAGGTTCCNCTCNGGGCCCCACCCAATTT  
TGGTGGAAAAACCTTTTTTGGGGGGGGGAATNGCCTTCCGGCCTTCCCCAAACNCNG  
NAACTTGGCCTGGTTCCAACCTTTTCNACCCCGGTTNNCCAAGTTTTTTTTTAAAA  
T

TCCCCCTGGGAGGTTCCAAAAGGCCCAAAAAAAAAAAAAAAAAAAAAA

Sequence 548

GGCGCCGGGCAGGTCCCTTTGTAATATCCTTTATAATAAACCAAGTAAATGCTGTTTCCCT  
GAGTTCTGTGACCTGCTCTGGCAAATTAATCAAACCAAGAAGGGGGTGTGGGAACCCC  
AATTTATAGCTATTCAAGTCAGAAAAAACAAGGTAAGACAATCTTGGGGCTTGCGACTGG  
CATTGGAAGTGGGGGACAGTTGTGCGGGGCTCAGCCTTCAACCTGTGGGATCTGACGCTA  
TCTCTGGGTAGATGAAGTAGAATTGAACTGGGGGACACCCAGCTTGGTGTCCACTGCAGA  
ATGAATTGCTTGCTTGATGTCTAGGGAGGCCGAGAATTATAGCAGGGAGGTGAAAAGCA  
CTTCTTATATAGCAGTGGCAAGAGAAAAATGAGAAGGAGCAAAAGCTGAAACTCCTGATAA  
ACCAATCAAGATCTCATGAGGCTCATTAACATAACAAGAATAGCATGGGAAAGACTGG

Table 1

## Sequence 549

NACCCCTCTCAGCCNCCCTGTAATTGCGCNAACTNTGGAAACGCTGCAACGATTGTCGAGT  
CGTATAGCGTCTATGTACATATAGCATNTTCNATAGTCATTGGTGTAGAGATAGAAAATG  
CTTCGTACATGTCAATGGGAGAATGGGTGGTACCACTACACCGGAACCTATCCCTAAGTCC  
ATCCGCTGGGGCGAAAGGAAGGAAAAAAGA

## Sequence 550

NTATCTTGTTCCTCATGNNGGCTACACCNACGCTAGNNAGCCCAATGAGACGTTACGAG  
CGCGCAAGTNAGAAACNAGATTTTCATAGAGCGCTTGTTGGGAGAGGGACATTGCGAAACC  
GCGCGTTTAAGTTACTCGTAGATATTGAGTANNTAAGGNCGTTGGGGAAACGCAACCAAA  
TACTCCTAGAGCCTTTGCCGNAACAAGNTACTACANTTGTTCNNGGGGAACGAAGGTGCC  
CCGNTCAACCCNTTGGCCCCAAANAGCCCCAAGNCTTCCNTTGTNNGGTATGGCAAA  
NNNCTTAACNGAACCACATTGGGCCAANGGNNCGCNANTGGNCCCCNTGGTTTTTATC  
NCANTAACCCNANCNAAATGGGCGNCNTCCATAGGNAAACCTTGTCCCNTAGCCCTTT  
NGATATTTCTCGGCATTTTNTGGCCCCNTTTGCTTTNTNTAANCGCCANTTACCT  
NT  
AGCNCCTTTTAGGCAACATCCTTTAAAAACGGNGCGGAGCGGTGTCCCCCAAGGGCCT  
TNCCCCCCCCAAANGCCCCTTTTGGTGTGCAATTTGGCAAGCCCTTTTGGNAGGGAACNA  
AAAGGGGGGGGTTGGGGANAACCTCCGGCCCCNACCGCCCCTTTGGNCCCTTGGGTAAAC  
TCCAAATNNGGGGGGANGGCAACNAAAGGCCCTTCNTTGTNGNGNCANTNTTTGGGGNA  
AAGAAGNACCCCAAGGNAAGTGNNCCACCGGGGGGTTNANAAANAAAAACCCCAAGC  
CACCCAAGNGGAACCTTACCCCTTANAACTTTTGGNATTANGTTNTAACNAAANNNACC  
CGNCCAAAATTTAAANAAAAANANAAGGGCGGATTTAATTTTTTAAATTCNTTGNCCCA  
TTNNGGGGTGGAAACATNTAAACAAATNTTAAAA

## Sequence 551

AGTGGACTNTGTGACCTTGAAAAAGTCATTTAACATCTCTGAACCCTACTTTCTAAGTC  
T  
CTACAAGTAATATATAGTGGGTGAGGTGTTCTTTCTTTGTTCTGNTACTNGGATGTGA  
AA  
CTCTCCNTTTGGAGATGAAACCATGGCGTAAGTAATATAAAGACTTTTCCCTGTAGTT  
AT  
CTTACAGACTGGAGAGAGTGCTAGTGAATGCTTTTGTCTTCAATGCCCATCTCTTGAAA  
TATTGAAGGTGGAGTAGCAACCGGGCATTATATTATCTCTTGAAAAAGGACCTCAGCAAT  
GGAGAATATCCCCATCATCACAAGTGTCTACTCTGCCGCACGTGATTGTGGAGAATAT  
CCCTCTCCNTGTGAATGCCAGAATGAGATTCAATTACAA

## Sequence 552

GGCCGGCCGCCCGGGCAGGTAACAATGATTCTGAAGCACAGTGATTTCAGACAGATAC  
AGTGAACCAAGTGCAATATGTAAGGATGAAAGAAGAAGAGATGACAAAGAAATCCAAGTA  
AATGCCTTGTCTTTGCAAATGTTTTATNTTAAATCATTAAAGGAAGGGAACTACTTT  
G  
CCTTTAAATGNATTACAAAAGAGTTTTCTAACCAAGGNGTAATACCCCTANTTCTTAAC  
A  
TTTNTTTTCTTTATGTGNTAGTTGTTTTCATGCTACCTTGTGTAGGGGAAAAACCTTTAT  
TTACAAGACNCATATTTANAAAAGGGCTANATTTTTAAATACTCAANATTAATATTA  
AAGGTTGGCTCCTNGAATTANNAGCCAAGNAAATANTATTTACCAGTTTTTCAATT  
T  
CCCAACNANGAAAATAGGCCATTTCCCATAAACCCCAACCTCCCNANAAATGNAACCCCA  
AAGGGGCCAATTATTTATTACGTTATTTTTGGGGAAGGGGGAANTCCAANNGGGGGT  
T

## Sequence 553

CGGGTGGCGGCCGAGGTACCCATCTCTGCCCATCACCGCTGGAATTTTGATGACCTATTG  
GAAAAGATCTGGGACTATCTGAACTAGTGAGAATTTACACCAACCCAAAGGCCAGTTA

Table 1

CCAGATTACACATCCCCAGTGGTGCTTCCTTACTTCGAGCGGGCCGCCCGGGCAGGGTA  
CTTCACACCAAACACTAGCTCAAGCACTGACGTTATTCTACAGGACTATGAACCTTCATA  
TCCACATTTACAGTCCGGACAGATAAAGGAAAACAACCCAAATCCAGGAGGCAATATAAA  
AGGAAGAGAAACAAAACACACATTCATACACTCACACTTAAAAATAGGGGAAGACCAACAG  
GGGAACTTTTCTGTTCTCTTCTGGGATGTCTACTTAAAAATCCCATGTGGGTACCT

Sequence 554

NCGGGTGGCGGCCGAGGTACTCTTGAGATTGCTTTAAATTTTGATTGAAACAACAATAC  
ATTTTGCAGTGTAGTAATGGGAGCACTAAGCTTACAACAGTTAGTGAATCGTTTTAAA  
G  
AATCAGTTCAGTGTAGACATTTTGAAAAGATTGTTTCCTGTGCTCTACGATAGCTTAGT  
G  
CAATGTGCACTTCTGTTTTACTTGCCATTTTCTGCTCTGTTTTCTCTGTGACATGAAG  
C  
AACAGAACTGAGATCAAAGTTAAGATTATATCCTGTTTGTAGTATCAGATATTTTTCT  
G  
TGTACATTTACATTCAAGTTTGATAACACTGGTGGTTTCATTTCAATACAAATTATGCTA  
GAGAACTGACATTTTCANACATGGTCATATATATGCTATTTGAATTCCTTTATCTTGATA  
CCAGATCTTGGATTGTGAATCTCTTGATGATAGATGTGCAGCTAATTTTGTCCCGAAA  
CT

Sequence 555

GGGTGGCGGCCCGCCCGGGCAGGTACAAGACCATGACACCGCCCAAAACACTTCCTGCAGA  
TGTTGTGCTTGGAAAAGTGTGCTTACAGAAGCCAGTTGCAAGGACCTTGCTGCTGTCT  
TGGTTGTGAGCAAGAAGCTGACACACCTGTGCTTGGCCAAGAACCCCCATTGGGGGATAC  
AGGGGTGAAGTTTCTGTGTGAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGT  
GTTACAGCAATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAGA  
AGCCTGCAGCCTCACAACTGGACTTGAGTATCAACCAGATAGCTCGTGGGATTGGTGG  
GATTCTCTGTGAGGGCATTAGAGAATCCAACTGTAACTTAAACACCTACGGTTGAAGA  
CCTATGAAACTAATTTTGGAAATCAAGAACTTTTGANNGNAAGTGAAAGGAAAA

Sequence 556

GAGAGCCCGGGTGGCGGCCGAGGTACGCGGGGGGGAGTGGCACTCGCAGCTGCAGCAAA  
TCTCAAAATAAAGAGGGCAACGGCCTTTCTCTCCTCTCCATCTCTCTATAGCACACCTT  
T  
TATTTCTTTCTTCTTTTTTAAGCCTCACGAAAGATTTTACTTGTAGATCAACTTTCAA  
AATGTAGGAAGTCAGAATGGGTGACATCATCAGAAAAATATGTGGAGCTGATCACAAGAA  
GTGAAGAACCCAGAGCACNGAAAGCGGTTGTGACTCCTGGGCCAGGGAGTTGACAGCGT  
CTGGGCTTCAGAGGAGCCAGCCGCCTCCGAGTTGTCTTGAAGTGAGGCTCTGCTGTAGT  
CCTGTTCTTCTGGCTCTAAGATCTGAATGTTGTGACCACTAATTTGCTNTTCTCTGGA  
GG  
GTAACCCAGTTTGGTCCACAAGGGCTT  
G

Sequence 557

GAGCCCGCGGTGGCGGCCGAGGTACTGGATGTCAGGTCTGCGAACTTCTTAGATTTTGA  
CCTCAGTCCATAAACCACACTATCACCTCGGCCATCATATGTGTCTACTGTGGGGACAAC  
TGGAGTGAAAACCTTCGGTTGCTGGCAGGTCCGTGGGAAAATCAGTGACCAGTTCATCAGA  
TTCATCAGAATGGTGAGACTCATCAGACTGGTGAGAATCATCAGTGTCTATCTACATTCGA  
GCGGCCGCCCGGGCAGGTACCGCGGGGGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGA  
GGCGCTTGCCCTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACTGGTTC  
GTTGCTTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATT

Sequence 558

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTGTTTGTGACGGAG

Table 1

T

CTCCCTCTGTTGCCAGTCTGGAGTGCACGTGGCATGATCTTGGCTCACTGCAACCTCCA  
TCTCCTGGGCTCAAGCGATTCTCCTGACTCAGCCTCCCAAGTAGCCTGGGATTACAGGNT  
GCCTGCCACCATGTCCCGGCTAATTTTGTATTTTGTAGTNAANACGGGGTTTACCA  
TA  
TTGGTCAGGCTGCTCTCGAAATCCTGACCTCGTAATCCGCCCCGCTCGGCCTCCCAAAGT  
GCTGGGATTACAGGCCCCGAGCCACCGNACCTGGCCTGTATTCCCGCGTACCTGCCCGGGC  
NGGCCNCTNTTAGAACTAGGNGGATCCCCCGGGCTGCAAAGAATTCGATATTAAGCTT  
AATNCNANTNCCGTCGACCTCTAGGGGGGGCCCCGG

Sequence 559

CGGGTGGCGCGCGCGGCAGGTACGCGGGGGTGCCTGGCTCCGTTTCTGCTTTTGGTT  
CTTACAGTAGTCGGCGTAGGCCTTAGGTGGGTTCTGTGCGCCTTCTACCTCGCTGTTTCGG  
TTTTCTGGCTCCTCGGCCCTTTTCTCCCCTGTTGCAGCTGGGAGCGGACGAAGCCGCGA  
AGCTGGGATTTTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAAAT  
CATACAATTTATATCAACAATATGAATGACAAAATTAAGGAAGAATTGAAGAGATCC  
CTATATGCCCTGTTTCTCAGTTTGGTCATGTGGTGGACATTGTGGCTTA

AA

Sequence 560

GCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGATCGGCA

A

GCGACGCTCATACANGGCNTAGCCCCGGGAGGAACCCGGGGCCGCAAGTGCGTTCGAAGT  
GTCNATGATCAATGTGTCCTGCAAT

Sequence 561

CATGTGGGAAGCGCTGTGAAGAGTTGTTGCCTTNCAAGATATACTCCAAATCCCAGTTC  
CAGCCCGTGTCAATAAACTCCGCTGGCGTGAAAGATGACATCCTTAGCCCAGCAGCTGC  
AACGACTCCGCCCTCCCTNAAAAGGGGGATNCCAGCCTTTAATNTANAGATGAANTTTG  
CCTTCCTTTGNTATTTT

Sequence 562

NNNAGCCGGGTATTCANCTCTACTTCAAAGGCGGGTAATNACCGGTTTATCCACAGAAA  
TCANGGGGGAATTAACCGNCAGGAAAAAGANACCATTGTTGTATGCCAAAATAGGGCNC  
ATGCTAAAAATTGCNCATGTGGAAACCCCGTTTAAAAAAAAG

Sequence 563

CGATAAGCTTGATATCCGAATTCCTTGCAGCCCCGGGGGGGGATTCCCACTTAAGTTTTT  
TTAAGAAGCCGGGCCCCGCCCCGGGGGCCAAGGGTTACCCCCGGGGGGGGGCCCGGN  
AAAAGTTTGGGAAAAAAAAAAAAAAAAAGGGTTTTTTTTTTAAGGTNNGGGCNTTTTGGNA  
AGGGGTNTTTTCCCCCCCCCAAAGGGAAANACNCGGGGNNCCCCNGNCCANAACCCG  
GGGGGGG

Sequence 564

AGGTACCAAGTAGGATAATTACTACTGCCAACACACACATGCACGCATGCACACACACAC  
ACAGATGTATGCACGCACACACACTCTCACTCCTAGACTGCTAAAAGCAAAAAAAAAA  
AAAAAAAAAAAAAAGTCCCTGCC

Sequence 565

NGACCTCGGCACTNAGCANCGNCACTACTTAGGGGGNGTTAAACCCCCCCCCCCCCCN  
GNAGAAACNCNGCGCCATGAGNTNTCAAGNGGAGGAAGAAGCGACCCGCGCANGCTGAA  
GCGCAAAAGAAGAAAGANGAGGCAGAGGGCCAAGNAAACCGNNAGCNGNNGCACCNGG  
AGGCNTTNTNGNNTTTGNNGGGNGGAANGCNGACGCCNNGGAAGNANGAACNAAGAAG  
CG

Sequence 566

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGGACTGGAGGACCTGTCTGG  
TTATTATACAGACGCATAACTGGAGGTGGGATCCACACAGCTCAGAACAGCTGGATCTTG



Table 1

CTCAGTCTCTGCCAGGGGAAGATTCTTGGAGGAGGCCCTGCAGCGACATGGAGGGAGCT  
GCTTTGCTGAGAGTCTCTGTCTCTGCATCTGGATGAGTGCACCTTTCTTTGTGTGG  
GA  
GTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAACAAAACGTTCCAAGTGGGACAGATACT  
GGAGATCCTCAAAGTAAGCCCCCTCGGTGACTGGGCTGCTGGCACCATGGACCCAGAGAGC  
AGTATCTTTATTGAGGATGCCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTG  
CTACTCCTGCTGAC

T

Sequence 567

GTTTTGGGGGAACACCGCGGNGGCGNTTTNGGGGTANACCGGGCCACNCACCANCNNCAA  
GGNCGAGGNNTNNNTTNGGGGGGTTAAACCCCNCCCCCNCGGGCENNNGNAGGCCG  
NCANNANTTTTTAGNNNGGGGGGGGNNGCCNCCGAAAAANCCGGACCTGNCCGGGC  
GGGCGTTNAGAACNAGNNGGANNNNNGGCGNGGAGGAANNNGNNANNAAGTTTTTTTT  
TTTTNGGGGGGNNNGGGGGGGGGCCCCNTAAAAAAGGNCCCCNAGNGGGG

Sequence 568

GCGGNGGCGGTTTTCGGNCGAGCCCTCTCTTGNCCATCTTCTCCCGCTGCTGAAATTTCT  
NTTGCGGGCGCTGNAANCCAGGACCCCNCCCCCGCTACGCTGGATAGCCTCNTGGCC  
AGAAAGAGAGAGTAGCCGCCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGA  
ATGCTGGCAGCTTCAGGAATCCCCGCGNACCTGCCNNTGCGGTCTGTTGCGN

Sequence 569

ACAAAAACCCAAACCCAGACAGCAGNAATGNCAGAAGANCCANGGAGAACAGCAGAANC  
TNACACCGCNGCNCCTCTGAAGGCTGAGAACACAAGNCAAANACATNNAACTNAAAAACAA  
CCGCTGAGAGAACACGGGGAAAAATNTNCANTTTAGAGANGNCCAAAAAAGGACACGC  
AAAGGGGAAGGGCAAGGCGGNGAGACAACGACGNNANNCNNGGGAAGACNNGGGGAGGGGG  
NGGAGAAGAGCCNNGGNGGCCAGAANNCCGGNCGGAGGNCACGAGGCGGNGACCCACAAG  
GGACCNGCCCGGGCGGNCGGNCGNAGAACNAGGGGAACCC

Sequence 570

GCGGNGGGCCCGGTTTTTTNGGGGGGGGCAACCCGCCNNGGANGGAAGGAAGGAAAAA  
ANGGGGAAGGCCAAGGGNCCGATTTTTTTNGGGGGGGGGNNNAAAAACCCCGGGGNG  
GGGGGGAACGGGGGNNNNAAAAAANGGGGGGGGNAAATTTGTTAAAGGGGCNAAAA  
AAANGGGGGGNAANCCNCAAGGGGGNGGGGGGNNCENNNGGGGGGGGGGGAAAAAAC  
NNAAAAANNNNGGGGGGGGGGNANAANNNNNNGGNNNCCCCNNGGGGAAAAAACC  
CCCCCCCCCNNGGGGNGGNAANTTTTTTTGGGGGGGGGGGGGNNNNAAAAA  
CCGGGGGGGGGGGGGGGGGGGAAAAANCCCCCNAAAAAACNACNCCCC  
CCCCCNNGGNGGGGGGGGGGGG

Sequence 571

CGGTGGCGTTTAGGGACCAAACGATAGCNGTTCTGTTTAAGTAGGGACCTCTCATGGTNT  
NCAGGCTNTGACAACCGAGAATCAAACCTGGAGAACATTCGAAGCCGTTCTTATAAGNGT  
CTCCATCTCTACCTGGGCTGAAATGGAATGTGCAAATGTAGCCAGCCTGGTCCTTGGGT  
GTTGCCAGTTGATTGATGACTGGGAGCCAAAGTGGCATTNCTTNGACCTAAACGGGCGA  
TGATGAAATAAATCGAGCGGCCGCCGGGCAGGNACATCTGTGAATGTGAATGCCAAAGC  
GAAGGCATCCCTGAAAGTCCAAGTGTATGAAGGAAATGGGACATTGAGTGTGGCGG  
TGCAGGTGCAATGAAGGGCG

T

Sequence 572

TGNAANNCCCCGCCACGGAAAAGGNGGCCCNAGGCCAGAGCTCCAGCAGCCCNGGGAG  
GGCGGGGCCGAGGCANGGANAAGNGGGAAGGAAAACGAAGAACAGGAGCAGAAANNGAAG  
AAANACAAAGNAAAANGGGGCCAGNCAGCATGTGAGAGACNGACCACAAAGCCCCACNN  
CCACNGAAAAAAGGNGGGAAAAACACCGGAANNAAAGGAAGACCAAGCAACNNGGNNN  
CNGGCAANGAAAGCAGCAAAANAGAAAANGAGGCCAAACCAANGGCAANAAACACCG

Table 1

## Sequence 573

GCCGGCGGCCGCCCGGGCAGGAACANAGCACTNAGGNGNGNCGGAAACNCGGCANGGGAC  
AGGACANAAAGGAAAAACANAAAGANGCAAGGGGACACGACACANANGAAAGGNGAAGGG  
CAACGNCGACCAAACGGGGGNAGAAGACAAAAAACCAAAA

## Sequence 574

NGGGNNGGGGTTNTTTGGGGGGGGNAAACCCACAAANAATACNGGGAAGGGNNGNNGG  
GGNNGGAATTNTTTTNGGGGGGGNGGTAAAAANCCCAAANCCCNAAAAGGGGGGGGGGGG  
GNAAAGGGGNAAAAAATTTTTNGAAAGGGGGGGGGGGGGGGGAANNCCCCGGGGAA  
AANNAANGGGGGNNGGGGGGGGGGNNNNNNAANNANNNNANGGGGGGGGGGGGGGNN  
NNAAANGGGGGGGGNNNNNNNNNNNAAANTTTTTTAAANTTTTTTTTGGGGGGGGGGG  
GGGGGGAAAAANCCCCNNNGGGGGGNGGGGGGNNNNNGGGGGGNNNNCNNNNNNNNG  
GGGGGGGGGGGG

## Sequence 575

GGAAAANCACACGCCAGGAACCNNGCAGCANNACAGNGACAGAAATTNGGGGGGNCGANAA  
ACCCACACNACCCCGANNNCNGGANCNCNAGGGAANGAGTTTNGCNCACCGGGNNGGCC  
CTCCCCCAGAAACNNANGNCCACAAGNCACTGGGCACAGANAAGAGNGNCGGNCNCAA  
AACNCACAGGGCNCAGGGTTNGCGTGNTTTTGGGGGGGGGGANGGGNNACCCCCCGGAA  
AAGAGGGCNGGNNANCCGGGNNCNCNNGGAGAAAGANGGGGANNACAGNCCANGACACN  
ACANGGNAACANAACNGAGNNNNCAANNNGAGCAGNAANNCGGGGGNC

## Sequence 576

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTAGGAGCCTCTCTCCCTAC  
TGCTGCTACACAAGACCCTGAGACTGACCTGCAGGACGAAACCATGAAGAGCCTGATCCT  
TCTTGCCATCC

## Sequence 577

CAGGTACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGGAGCTCGGCGAGCGAG  
AGGCGGCGCTGGCGTTGGAGAGCGACGGCGGCCCGCGTAAGCAGTGGTAACAACGCAG  
AGTAACGCGGAATGAAGAATCTTAGGCGGGTGACCCAGTTTCCACCATGATTAAGGGT  
CTTTACGGAATAAAGGATGATGTCTTCTTAGTGTTCTTGCATTTTGGGACAGAATGGA  
ATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGAAGAGT  
GCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGTCTTCTGATGTCATAT  
CATTTCACTGTCTAGGCTACAAC

## Sequence 578

GCGATTGGAGCTCCCCGCGGTGGCCCCGCCGGGCAGGTACCTCACAACGAGTTCAGTCAG  
TAGCAGAAGGATCTTCTCTCTTGTTCCTGATGATTTCAAGGTCTCACAGTCCTGATA  
AT  
CTGGTTCTTCCCGAACTCCCAAATATCTATGGAGAGCTGTTCTAGCTTTTGACAGGGA  
ACCAAGTGACAGAGGTATCATTAAACATGTCCATGTATTGNGAAGTCTGAGGAACTCAA  
GCTCCTCCAGTCCTTTTAAATCTTTGCAATGTAGGGATAATTTTCTGCAGAATCCTT  
G  
CCAACAACCTCTCCTCAAGTCCTTTGAACTGTTCCCAATGATGACCATCTTAGAAAGGG  
CATCTACTGACCAGTTACTCCATAAAAGATTGTTGTACCTCGGCCGCTCTAGA

## Sequence 579

ATTGGAGCTCCACCCGCGGTGGCGGCCGAGGTACTTTGGACAGTGAGGGTTCGATCCCAA  
TTTTAGGGGTAGGGTTGGGGGTGGGAGTGGGAGTGTGGGTGCCAGGAGGAAGAATGAGT  
CTACTTTNGANACAATTAAGTCATGGNCCTCTCTTTTTTTNTTTTTTTTTTTGGCT  
ACNTAGACNTCTTTCTCATGTATTGTTACTAGAACAACCTTNTATAGGGTTTTATGTTN  
G  
GGGAAAACATTNNTAAAAATGGACTNATCTCTATTATACAGANNTATAATATAAAAAATG  
ATTTAAAGGCTATATTTTTCAGCATGTAGGTAGCTNCNCTGTCANCCTGTTGAAGAN  
CT

Table 1

TTCTATTTAAGCTTATAGGATGAAAATATATAATTAAAG

Sequence 580

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCCAAATGCTTCCCTGGTCTTGATGAT  
CTCTTCCAGAGTCGATCTGAGTGGCCTTTTCTGCACCCTCCCTTCTTTCTCTTTGAA  
TG

GAATTAACCCCAATTTGAAACAACATTGACCCAGTCAAAAGCTTCTAATGGTTTCTTT  
T

TCTTCTCCAGTTTTAGTTTGCTTTTATTAAGGAAAGTGCATGGCCATAGCT  
C

CTTCAGTTCTCTTATTGCAGACTAACCATCAGGATGGTATCAAAGCACAAATACTTTGGA  
GGGAATGCGTTGAACTGGGGCAAGTACCTGCC  
G

Sequence 581

CGTTGCGCTCACTGCCCCGCTTTCCAAGTCGNGGNAACCTGGTCCGTGCCAGGNTGCAT  
TAAATGAAATCGGCCCAACCGCCGCGGGNAGNAGGGCCGGTTTTGCCGTTATTGGGGG  
CGCCTCTTTTCGCTTTTCTCGCTTCACTTGACTTCGCTGGCGCNTCGGGTTNCGGTTT  
CG

GGCTTNGCNGGTGCGNAGGCCGGGTANTTCAAGTCNTNAACTTCAAAAA

Sequence 582

NTNAGACTCCCCGCGGTGGCGGCCGAGGTACCAAATTGTTAAATACTCGNAGGCCTTTAG  
GAACCTGTGACTGANTNCATAAATANCAGANCCTATATTGTGATGNTGGTNAAAGGACAN  
GTGCTCANCTTCCAATTACA

Sequence 583

ACCCTCCTGGAACCGNAATAAGTTNNTGGGGGGGGTNAACCCNNGNCCACNGAATNNNC  
GGACCACANGANCNAACTNAAAGGNCTAGCTCANAGAAAGCAAGNGNCAAGCNGGGCANT  
AGCTGCTGCTTCCCCTGGNGGAACATNGCCTGCTNCCTCATAANCCATNNCCAGACAAGC  
AAACATTNGTTNGGCAAAGCCGACANCNACNCAACNACAAGAGACACTAAAGNGCNGNC  
NGGGGGGGCTNCCAGGGGAGANGAAANGGGAAGNCGGGCNGCAGCAACNCGGNCAAAAA  
AAACACCAANNNCNNGGGCNCAANGGCACNAANCAGAACGGCNCGCCCNNGGGANCCAC  
AGCNAAGAACCGGCC

Sequence 584

TTGGTTATACAACATTTGTTTAATAAATGCANTTTNCAAAGCTACACANGACTTAGATA  
T

TGAAGCAGAAAAGGTGGTTTTACAGTCCCTGCATTAACCTCTAATTCTTACTACCCTGGC  
CAAGAAAGCATTTTACCTCCTGCGCTTTCCTTCTGTGTGCTTGTGGTTGGTTCTTT  
CT

TCTCAGGCTTTNTNATTCTGATGCTGAGATAGTTCTGTTCACCTTAGCAACTTGGGACA  
GT

GACACAGGGTTTGTCTGTACAAGCAGGTATCCAAGAGGCATCCATACCCTGGGTTTTCT  
CTCCAACCATAGGAAAATTGATGCAGCTGTTTCTGACAAGGAAAAGAAGAAACATACT  
TCTTTCAGCGGACAAATACTGGA

Sequence 585

AGGTACCTGGGCCACCAAACACAGCTGGACTCAATATATGGGGAAGGTAAGTGTCTCAG  
TTTTTGGAGAGAGATTACCCTCTTCCAAAAGAGTGCTTGATTCTGGTAGTCCAAGCTGTC  
TCCGTCTGGTGGCACCCCAATTTCCCCTGCCTAGACCCACCTCCTTTCCTCAGCCCCCTT  
CGCCTGCCGCTGAAAAGTGAGAGCGGGCTCTTGCCTCCCCCGCTACCTGCCCG

Sequence 586

GGGGGGNNAACCCNGAAGANGCGGNNNACGCCNNNCAGAGCCACANNATTTTTGGNCGA  
AANAGGGGNCCAGNNCCGAGGAAGGNGGAGGAGGNCNGNAGGNACCNNGGGCGGNNNAGA  
ACNAGGGGANCCCCGGGCGGAGGAATTTTNNATTTTTTTAGGGGGGNGGGGGNNCCC  
CCGGGGGGGACCGGGACCCAGNNNCCNGNNNNGGGGGGGG

Table 1

## Sequence 587

ATTGGAGCTCCCCGCGGTGGCGGTGCGGTGTCAGCTTTAAAGCATCATAATGACTAATTATA  
GGTGAATAATTTTACAGACAGTCTATATTCTAGGAGGCAGCTGTAGGCGTTTTAATTGGA  
AATAAGCATTCTGAGATAATGATAATAGCAGTGTAGAAAAATGAAGCTAAAAAAATTCAA  
AGTGTGAGAATCCTCCTGTCCTTCTGGGATTTTTATTTTAATCATCTCCTCCACAGAG  
A  
ACAAGCAGNACTTTTTTTTTTTTTTTTTTTTTTGGGGGTATTTTATGCACAAAGAGCC  
ATCGTGGTTTTTTATTAGGTAGATGCCCTGGATAATCCTTTCAAGGAAGATCACTTAGT  
C  
CAACTTAATGAAACCAATATCCTTCGCATAC

## Sequence 588

GAACACCGAAGAGCCAGANTNTTTAAGGNCAGAGAAANCCCCAGANNGCCGAGGNACGGG  
ANAAGAACCGGGAAGGGAANGAAGGACAGGGAAGAGACCAANGACCGGAACCCNCCCNCA  
GACTANGAACAAGCAGAGGCAGAAGCCAGGCACCNGGNCNANGAANCAGACCAAAACAAG  
GATGNNAAGCNGNCNAAGGAGGAGAACC GCGACAAGNANGACANAAAAGACGGCAGCCA  
GGNNACAGAAANNNGGGGAGGCCNNAGNACCCCGGCCGNNCCAGAACCAGAGGAACCCCGG  
GGCNGGAGGAANNCGANANCAAGCNAANGAAACCGGCGACCCCGAGGG

## Sequence 589

GCAGAACAGACTTGCAGCCGACCAATTTTTGGGGGGATNAAAACCNAAANCCCGGANTNC  
ACCTTTCCACTTTTTGAGGACANTGGCCAGGGGCNCTGGGCTACCCGATGACAAAGCAAA  
NCAGCACAGCATCCCGAANCAGGGGAAGAGAGGGGGCGGACANTGCCAANAGGAAGGAGAA  
CCCGAAGTGTNCCACAGGCNCAACNCTANNCCCGGGGGGCGGAANNCAAAACCGGCCGGG  
NAANNCGNAAACACTGGAGGAACGNAANCNCGGGGAAGCAGNCCNCGGCGAAG

## Sequence 590

GCGGNGGTTTTTGGGGGGCAACACGCGGGACNGCANGCCACNGNCNAGAGCNNGTTTTTT  
TGGGGGGAGAAAAACCCCGCCCCCGAACGCCGANCACCNCNAGAGCCACCTTGNCTCA  
NAAACAAAAGGCCANGCCCGGACCACNGCCCCGGACCNGGACAANCNGGACNANNNCN  
GGGNNAANNNGGCCGAGNGGAACAACCATATAANAAATTNCCNCGGGNGGGGGGGAGC  
CGAAGAANNAACNAAAAAAAAAANCCCNANANGGGGGGGGGGANGNACCCNCGCCGG  
GCGGCCGNNCNAGAACNAGGGGANCCCCCGGGCGGCAGGAANNCGANANCAAGCCNANCG  
ANACCGNCGACCNCGAGGGGG

## Sequence 591

CGCCCGGCAGGTACTCAGGTTTTATCTCTGCACTCCAAGTAGGATGAAANGATAAGAGCA  
AAGGCTCATGTTTGCCAAGTCTGTCCTTTGTAAACAAAAAACCAGCAGCTTTATCAAGC  
AGAATTCCACCTGTATTTCTTAACCTGCCAGAGCTGAGTCTCATGGCCACCCCTTAGCAGG  
AGTTGGGGAGGTATTTTAAACAAGGCACATTATCATCTCCCCACCCAAAGTGGAGCTAT  
TGCTAATGAAAAAGATACAATGAGATGTTTATGAAATTATCTGTAGCTATTAATGTCAG

G

TTTTTGAAATTTACTGACCTGGAAGAATACTCATAATGCAATGTCAAGTGAGAAGCAGGA  
CAAAGA

A

## Sequence 592

TTGAGCTCCCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTGGCCACG  
C  
AATTAaaaaaatttttttttGTAAAGACTGGATTTGCCATGTTGTCCAGGCTGGTCT  
G  
GGATTCTGGCCTCAAGCAATTCTTCCTCCTCGGCCTCCCTAAGTGCTGGGATTACAGGC  
ATGAGCCACCATACCTGGCCACTTCTTCATTCTTGTGGCTTTGCGTNCCCCGATTTAA  
AA  
TTGGNGAGAAGTTCCTTCGGCTGGGCTGAGGACCCGNGGTCATGGGTGGATCTCATGGAG  
AGAGGGCNAGGACAG

Table 1

## Sequence 593

GTGNATTGAGCTCNCCGCGGTGGCGGCCCGCCCGGGCAGGTACATAACTCCCGCAGGATCT  
CAGGGCCTGCCGCCCCATTATGATGATGTCGAGGTTTTTCATCCTGCAGCTGGAGGGAGAG  
AAACACTGGCGCCTCTACCACCCCACTGTGCCCTGGCACGAGAGTACC

T

## Sequence 594

CGAGGTACAGGTGCGATTCTGGATGACAAAAGAAGATGCTTACTTCACAGAAATTCGAAA  
TTTCATTGGGAACAGCAACCATGGCAGCCAATCTCCAGGAATGTGGAGGAGAGAATGAA  
TGGCAGTCATTTTAAAGATGAAAAGGCTTTGTGCGAGCGGCCCGCCCGGGCAGGTACTTTNT  
TTTTTTTTTTTTTTTTAAGGAGCTTTTATTGTTTTAGTAATCTTAACATAACTTAA  
AATAAGAGAGGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTGCAATTGAGCAC  
ATTTCTTGGGTCTGTTTCTCTATCTCTAAGGCGAGTCTCAAACCCACAGC

## Sequence 595

TCACGGGTGGCGGCCCGCCCGGGCAGGACATGGCCACCAAGTAAGAATGGTTGGTGACAAC  
GACAGAAGGCTAAACAGGAAGGTAATCTTGTGCACCTGACAAATAGAAAGAATAAAGGA  
TCAAAATTGAAGGCANGCTATAANAGTATCAAAGAAATTTCTTAAAAACCAANAGTGAT  
TTTGGAAGCACAAAACTTACNGTTAACTGCTTNCCCAAATGTTCAATGATTGTGGCCCA  
AAGAACANTTTGNGGCATTNCTAAANTTTAGAAAAAATTGCNNATNTGCNAAAAAATTTT  
TANAATNGGGANACACNACCTACCATTTTTTTTTTCTAAATCCNAAATTTCTCCCCCCC

C

TCCTTCCCAGAAANAGAGAAATTTTGNTNAAACCTTCAATNT

## Sequence 596

TGAGCTCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTATTTAAGAAAAGAACAAGGTTAAC  
TAACTAAAAGCAGGAACTCACTTATTTTTTGCTCCCTAGCCAATTAAAAATAAGTTCAT

T

AAAAGCACTTGAAATTATATATTTAACCTGAAAAAAAAGTTGCTAAAATTCATATATAA  
TGTAATATCTTTAACTTGCTTAACCCAGCTATCCCCAAACAGTGTAAGTGGGGCAAAA  
TGTTCAAAAGAAAAATCATCCAGTGACGTAAGATGGGGCACCCAAGAAGGCTAAGCCTT  
CCTTGNGCCGCGTACCCTCGGGCCGCTCTAGAAGTAGTG

## Sequence 597

CCGCGGTGGCGGCCCGCCCGGGCAGGACTTTNTTTTTTTTTTTTTTTTTTTTGTAGTTAC

TC

TGATGTTTATTTAATGCATCTTAGTCCACACAGTTGGTATAAAATCAGAAAATGCAAA

G

CAAAAACAAAAGGTCTGGAGTCTTAGCATCAGAAGGGCACCATATATACATCTACAGTTG  
GNGGCCAATACAAGTCATTGCCAGACAGTCCTTGGAGGCACAGAACAGCCCAGACCCAGC  
CAAGCTCTAGGAACTTCACGGGTCCCAAGGGGTNTAGACCNCTTGTTCTNGATGCTCCGA  
ACCCGTAAAAAAAATGTGGGGAAGTTGATGAAGGCTTTTATGATTTACTCATTATCCCC  
GCGTACCTNTGGC

## Sequence 598

TCACGCGTCCGGGGAGGTAGTAGAAAGGCGCTGGGTGTTCTAAAATAAGGCTCTCCTGGC  
CCACGGCTGACTGTCTTCCTTGTTCTCTACAGTGACCGTGACTCTGGACCCAGACACG  
GNCTACCCCAGCCTGATCCTCTCTGATAATCTGCGGCAAGTGCGGTACAGTTACCTCCAA  
CAGGACCTGCCTGACAACCCCGAGAGGTTCAATCTGTTTCCCTGTGTCTTGGGCTCTCCA  
TGCTTCATCGCCGGGAGACATTATGGGAGGTAGAGGTGGGAGATAAAGCCAAGTGGACC  
ATAGGTGTCTGTGAAGACTCAGTGTGCAGAAAAGGTGGAGTAACCTCAGCCCCCAGAAT  
GGATTCTGGGCAGTGTCTTTGTGGTATGGGAAAGAATATTGGGCTTTTACCTTCC

CA

ATGACTGGCCTACCCCCCGNNGNCCCCCGGTTCCACCGGGGTGGGGGGAT

## Sequence 599

Table 1

ATAGAGGTTCTGACTCCTCAGGAGCAAAAAACATAACCTGAAGAGGGAGGAAGTGGATT  
GGGGTTCACCATTTCTTGGGGCACACTTGATTGAAAACCTGANACTTCTGAAGAGAAGGCC  
AGAAGATACAAAGACAGNCCATNCCAGTTGAATGCTGTCTTCCAAGAACAGAAGAAAATG  
ATCCAGGCCCAGGAATCCATAACACTGGAGGATGTGGCTGTGGACTTCACTTGGGAGGAG  
TGGCAACTCCTGGGCGCTGCTCAGAAGGACCTGTACCGGGACGTGATGTTGGAGAACTAC  
AGCAACCTGGTGGCAGTGGGGTATCAAGCCAGCANACCCGGATGCACTCTTTNAGTTGGA  
ACAAGGNGAA

Sequence 600

AGGTGACACAATGGCCGAAGGCTCCATGGCGGCTGGCTTCTTCCAGCCCTTCATGTCACC  
GCGCTTCCCAGGGGGCCCCCGGCCACCCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCT  
CCCTGGCTCCCAAGCCCCCTCTNCCTGGCGCCATGGAGCCCTCCCCACGAGCCCAGGGGC  
ATCCGAGCATGGGCGGNCCAATGCAGAGGGTGACGCCTCCTCGTGGCATGGCCAGCGTGG  
GGCCCCAGAGCTATGGAGGTGGCATGCGACCCCCACCCAACCTCCCTGCGCCGNCAGGCC  
TGCCTGCCATGAACATGGGCCCAAGGAGTTCGTGGCCCGTGGG

Sequence 601

AGCNCNAGCTCGACGCGAAAAAAATAAATAAAAAATTAAAAAATCTGTGCAATAATTT  
TAAATGTGCTCCAGGAATAGACACAAATGTTTTGAGTATCTTTTAAGCTGCATTTTC  
C  
TTTAGTGATGCATTTGTCAATTGCACTGAATTTAAATCTGAAAGTCAGAGGTGATTATT  
G  
ATAGTACTTTTGATTTTGATATGGACAGTTTATTCATTTGCATACAGTTATTGACTTTT  
TCCAGCTGATTAAAAGATAGTCAAGAAATTTCTGCAATATAGCTGCCAAAATAGACAGCT  
ACATTTTTATGATATTGTCATCTTTTCTGNTTTTTTTTTCTTTTTTTCTTTAGCTATTT  
TACTTAAGCATAATAGCCACAATAGGACATATAAAAGATTATAAATACAGA

Sequence 602

CAAGATCGGNGCAGCGACGCTGCGGGCTACCCCCATGCCACCCATGACCTGTAGGGACCA  
CCTCTAGATGCCTACTCGATTCAAGGACAACACACCATNTCTNCGCTCGANCTGGCCAAG  
CTGAACCAGGTGGCAAGACAACAGTCTCACTTTTGCCATGANTGCACGGNGGGACNCGGA  
TTCGCCGGAATNTGNACTCCAGCTCTCCAGAGGATGNAAGGCTANTGGGCAAAGTTTT  
TGGGATGCCATTCTANCTCATAACCCACCCANTGAACTNCAACCCNATTTTCNCAAANA  
NAACNTTAAATTTGGGCTTGTAATAAANTCCNNGNGCCGGCACAAGGGCCGGCCCAA  
CCAT

Sequence 603

GTCCGGGAAAAATTACCTGTCTTGACTGCCATGTGTTTCATCATCTTAAGTATTGTAAG  
CT  
GCTATGTATGGATTTAAACCGTAATCATATCTTTTTCTATCTATCTGAGGCACTGGTG  
G  
AATAAAAAACCTGTATATTTACTTTGTTGNAGATAGTCTTGCCGCATCTTGCAAGTT  
T  
GCAGAGATGTGTGGGAGNCTAGGAAAAAAAAAAAAAAAAAGCCCTTTTCAGTTTTGTGTC  
CACTNGTGNTATTGGGACCCGTGTAGNATTTGTATGCCAAGAATTTTCTTGAAAT  
GG  
AAAATGNTTTTGNTTTTAGNACCGNAGNATTCATACNCCGGTTAAAGGCANGGNAAT  
TNGACCAAAAGTCTTTGGCTTTTTTTCTTGGGTAATTGNTTTCCTAAANGNTGGTTA  
T  
NTTGGTGGANCTTTTTTAACTGGTTTAATAANTTTAAATNTGGCCCCAAATTAATT  
A  
NAGGTTTAAAAATNATTAAGGNAATTTA  
A

Sequence 604

CCCGCGTCCGAGACAATACAAAGTTACATTTTTGGACCATATTAACCTGCAAGAAGACA

Table 1

GGGGTCTTACTGAAGATCTTTTAGAAAACCTAAATCCTGTCACAGGATATTTAGACATG  
T  
GTAGAATGTAGCTCAATTTTTTAAAAAGTAACTGACCTAGAGGGTGAAAGTTGAAACTGA  
CACATTTTCAAATTTAAGATTATGCTTATTTGTACAGAAAACAATGTTTAAACACCANA  
GGCAGNATCTTGTTGTANTGTATATAAACGCTAACACCAGGAGTTTTTTAAAAACCANAA  
ATTTAAATTTATTTTTANGCTTTTAATTGGAAAGGNTTGGTTTTNTTTTTCTTTCC  
GAAACCCTGGGAGTTATTCAATTAATTTAATTAACAGGGTNAGTTTTTTNAANACC  
C  
NAAGAAANTTAAGGCCAAGTTNGCCCCCTTTTTCTTTTTTTTGNTAACCATTAACCTT  
G  
GNATTTTGGGGAACC  
Sequence 605  
CTCCCCGCGGTGGCGGCCGAGGTACCCAAATACCACTTCAGGAAATCTGGCCAGATCACC  
TGAATCCAAATGTTCTATTAATTCAATACACGTTATCAAGTCAAATCCAAGCAAACGAGA  
GTCTCTCTCCACAACGGAGCCATGATACAATGTGATGGTCAAATTCAGATCCCGAGGTTT  
CAGAAAATCCCCCAGGAAAGGAGCTAACGAATCCCCTCTCCATCGTAATTTATCCTCATT  
AATATCTACTCCAACAAGCAATTCAATGCATGGATTGACTTTTAGCAGCCTTAAGAGTGA  
AGTATCACCACATCCCAGGTCTGCAACCTTCTTAGGCTCATGTTGATCCACTAAATTTT  
T  
AACGAACTGGTACCTGCCCG  
Sequence 606  
CTNCCGCGGTGGCGGCCGAGGTACTTACAAATAATTACTGGCAGTAGGTTATAATTGGTG  
GTTTAAAAATAACATTGGAATACAGGACTTGTGCCAATTGGGTAATTTTCATTAGTTG  
T  
TTTGTGTTGTTTGATTTGAAACCTGGAAATACAGTAAAATTTGACTGTTTAAATGTTGG  
CCAAAAAAAAAAAAAAAAAAAAAGGTCCGCGGGGCGGAGGTGAGGACAAAGATGGTG  
CCACCGGTGCAGGTCTNTCCGNTCATCAAGCT  
Sequence 607  
CGGCCGATGAGAAGAAGAAGGGGCCCAAAGTCACCGTCAAGGTGTATTTTGACCTACGAA  
TTGGAGATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCGAAAGACTGTTCCAAAAA  
CAGTGGATAATTTTGCGCCTTAGCTACAGGAGNAGAAAGGATTTGGCTACAAAAACAGN  
AAATTNCATCGTGAATCAAGGACTTNATGATCCAGGGCGGAGACTTCACCAGGGGAGAT  
GGCACAGGAGGAAAAAAAAAAAAATAAAAAAAAAAACGAANGGTACCCTCNGGCNCGTT  
TTAGNAACTAGTGGGATCCCCCGGGGCTGCAGGGAATTTCCNATATTNAAAGCTTTTAT  
TCTGGANTACNCCGTCCGGACCCCTCGAAGGGGGGGGGGGCCCCCGGGTNACCNCAAGCC  
TTTTNTTGGTNTCCNNTTTTAGTNGGAGGGGGGTTT  
Sequence 608  
TTGAGCTCCCCGCGGTGGCGGCCGAGGTATGCGGGAGCTGAGAGAACAGACACAGACCTG  
TCGGAAGGTCTCTGCAGGTCCCCCTTCCGCTCTGCCGATCGACTTCCGCCTCGGGCAGT  
CAACATACTGCCAAGGAAATCTGATGTGGAAGGAAATAGAAATAGTGCAGTTTGCTAG  
CCGGACACGCCAACTCTTCGTTTCGATTATTAGCTTTAGTGAAATGGGCTAATAATGCTGG  
CAAAGTGGAATAATGTGCGATGATTTCAAGCTTTTATAGATCAGCAAGCCATCCTGTTTGT  
GGACACTGCTGATCGCCTGGCCTCGTTAGCTAGAGATGCTCTGGTCCATGCACGCCTGCC  
TAGTTTTGCCATCCCATATGCCATTGATGTACCTGCCCCGGCGGCCGCTCTAGAACTAG  
Sequence 609  
CGCGGTGGCGGCCGCCCGGGCAGGTACTTCCGCCTTGCCGTTAGCTTGTGGAGAACGTGC  
TTCTTATTCTGGCAGGCTTCAAGAACAGCTGCACATGTGCCGCTAACTGACCGCGTTGC  
CATTGGCGACCTGGACTCTGAACTCAGGTTTATTCTAAACCCAGTGAGAGGTGAGGGGGA  
GTGATGAAAGGGGATCAGCTGTATTTGTGTGTGTGTGTGTGAGCACCTGACAAATCTA  
TGAAACCCGAGTGAAAGGAGAAATGTTAGATTCTTATTATTTATTATATTATATGGA

Table 1

AAGCTCGACTCTCCCTTTGGTAAGTCCGAAGCA

Sequence 610

CCGCGGTGGCGGCCGAGGTACTGCGTTTTTTTTCTATTATAAAAGTGATACTGAAATAT  
GCTAATTAATATATTAATTTTAGTTAAATGCTGCTAATATGCATACCTCTTACTTGAAGG  
TTTTAATATGTTTTGATAACTTTAATAACTTCAGGGTGATGTCTGTATAATTTTAAAG  
TGCAGCTCTCTAACAAATGTGCCCTACAACCTCTGATTAAACCGCGCTTGAAGGTT  
CAAAAAAAAAAAAAAAAAAANGTACCTGCCCCG

Sequence 611

GTGGCGGTGCGAGGTACTTANGAGAAATTGGCATGCTTTGCTAATNTTATGCAGAGGTAA  
CCATGTTGANNACATATGTANTGTTGAGAGGNATGTCTAATTTTATGGTCNTAGGAAAAA  
TTAAAAGAAAACGCTGCTTTCTGAACTGAAATANAATGTTTACAACCTTGACNAGG  
ATCCATTTGGTGGCTAGNCTCGCCTTCAGGGNGGNAAAGAGAATATGCCAGTTCTGTNG  
TATGGACTNTTACANAAGCTAAGGNAGGGGNAGTTTCTTTCTTGGTGGNGACAAGTTCC  
TGCNCACTTAATTTTTCCNCTCCTGNCTTCNAAACCTGGGAAA

A

Sequence 612

GAGTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAAGAAGATGCAGTTCAAATACTG  
CCAGTTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCTACTCTTGCCTTAAACT

T

TTCTCACCACACCCACCTTCCACATGCATGATATCCAAGGTGACAGACCTGGATTAGA  
ATCCACTCTCAAGCTTCTCATGCAGTGCCTATTGTATTTCTGCATAAGAAAGGGCTGCC  
TCTAGAACACAGTAAGTGTATTTGCCCAGTAGTGACATTGCCTACATATAGCCAAGTGT  
ATAGTATACCAACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGTATGNTTG

G

TTTCTCACTGTTATCTTCTTTCTATAATTAATTTATTTAATCTACAAATTGACATAG  
GGCTAAAAGCTTCAATATTTTACAAAATTAATTAATGNAAATTGGTCCCAATTATTA  
GAACTTTTTTTNCATT

Sequence 613

AGGAAGNCCACTTTTGANGAGGCCATTNAAAANCNAACGGNNATGANCCCCCACANNNC  
ACTCNGAGGGGGAGGTANGAGNANNNCACCNCGGGGCCCCGNCNCGGGAAAGGAAAGGCN  
AACNCCACGNCNGGGGCCAANGGCCNCGNCGGNANNNACNNNACGAGAGGCCACCNN  
AACCAGAGCGANANGCCCCGGGGGNCCAGAAAGGGCNGCACACAGNACCTGCCCGGG  
CGGGCCGCNCAAGAACNAAGGGGGAACCCCCCGGGCCNGGCANGGGAANNCGAAAAAC  
AAGGCCNNAACCGAAAACCCGGGNCGGACCCCCGGAGGGGGGGGGGGCCCCGGGGGAACC  
CCCAAGCCNNNNNGGGNCCCCNNAANGGGAAGGGGGGGAAAAAANAGGGNNCCGCC  
CANGGGGCGGNAAAACAAAGGGGGGNAAAAAANGGCCCGGGGANACCCCCGGGGGGG  
GAAAAANAGGGGGNAAAANCCCGNNNCAANAANNNCCCCACCCAAACCANNAACC  
GNAGNCCCGGGGNGGCAAAAAAAGGGGGGAAAAAGNCCCGGGGGGGG

Sequence 614

CCAGAGNTAACGAAACATTCTTTATAAAGGTTTGAACCCNCNGTTTNAAGCCAANACCA  
TAATTTAATTACAAANGGATAAATATGGTAACGGGTATTTACAGAAGGAAGGGNGTTATT  
ACGGAAGAAAGCTAACGGCACGACGTTTATTTTCCCCACAATCTTTCATACAGGAACTA  
ACAAANTGAACCTGCAAAAGCACTAAACATCACATGTAAACCCAGCTAACAGAAAAATA  
CATTCACAAGCGTTGNTGGTGGGGGTGNGNATNGTGTGNGCTAAGGGNCAATGGGCNGAA  
GAAACAGAAGGGGAGACTNTGGCACGGCTCAATTCTTCCAGNCNANAGNTACATGGAAGG  
TTACAANCAGGGTGCCCCANAAAAAGGNACCACTANTCAATACCCNCCAATACAAAA  
AGAAAACCAATNTTCTTCCNCCANTACCTAAAAAAGGAAACCCGGGGTAAAC

Sequence 615

CGGTGGCGGCCGCCGGNCAGGTACTTTNTTTTTTTTTTTTTTTAATTTTCCATGTAT

T



Table 1

NGCCTTNATCAAACCTATAAGCTGNGGAGTGGCCAATATACTCCATTGNGATTATACACTG  
ATTTCCATCACCTGCCTTTTTACTATCAACTCTTATTAGA

Sequence 616

CGGCCGAGGTACTGTGCCCTCTTTCTTACTAGGTGACCGAGAGTGGTTTTGACTCCTGTG  
GGTGCTTGAAGTCATTCTCAGGGGTCTCTATGACCTTTTCCCTCCTGCAGTTCACCTCT  
AG

TTTCTTCTATTTTCATCATCCCGCACTGCTCTTAGCATCGAAGTCACTGTCTGCATCTGG  
G

TNTCTACTTTTACATCAAGTTTGAAGAATGCATTTCTCTTGNGGTATTCTGTTTTTTGAA  
CTTACTTCATTGGAGAAGCCCCTTGATTTTTCTTCTTTATACCAGATCTGGCTTCACG

A

AAGCTGCATTTAGGTACCTGCCCGGGCCGGNCG

Sequence 617

GTGGACGAGGGCAACCCNACTAGCCTAAAAGCCCGTGACACTTGCAGCAGGTGCTTGCCA  
CGCTTGACCCCGTCCGAAAGAAAAACGCGGGCTAAAAGCGCGAGTCTGGTGACTTTGGCA  
CCCAACCGTGCAANTTGATGGTACCCCAAGCCCAAGCGACTGGNAAGATGTCTTTGGNAA  
AAATGAACCGTGGAANCTTGGCTTGGAGCCCGANGTTCCGCGTGCCGGCCCAATTCAAGCA  
AGGTGGCAACCGGGACTTGGGCCGTCAANACCCGTGGACCGTTCAANATTCCCAACCA  
CCANTAGCACTNAGTATTTGGCCATTGGCANAAAAAGGGGAATTGAAAAACAAACGNT  
NCCCCGNNTTGCTTTGGNGGGNGCAAAATTCCNCGNGCAAGGTGGGCCCTNTAACTAT  
NTTTTTAANAAAAAAA

Sequence 618

CCGCGGTGGCGGCCGAGGTACTGGGACAGTTGGGTGCGTTATGGATACATAACCTGAGGA  
GCCCCGGGGGAAGCTGGCCTTGGGTGTTTTACCTCAATCATATATCCACACAAGTGCTTCT  
CTTGACATTTCTCGAAATGGGAGAAGAAGATAAAATTGTTATCCTCCACAACCTGCCT  
GGAGAACCTCNGCCAGCAGAAATCTACCACTGTCTGAAGACAAATAAAATATAGCAAAGAC  
AAGATGTGGTATTTGGCAAAATTGATACGAGGAATGTCTATTGACCAGGCCTTGGCTCAG  
TTGGAATTCATGACAAAAAGGGGCCAAAAATAATTAAAGAGGTTCTTTAGAAGCACAA  
GATATGGCAGTGAGAGACCATAACGTGGAATTCAGGTCCAATTATATATAGCTTGAGTC  
CACCTCGGGACCGAGGCCAGTGCCTGAAACGCATTCCGCTCCATGGCAGAGGTGCGTTTTG  
GGGATCATGGAGAAGGTTTATTGGCATTATTTTGTAAGTTGGTGGGAAGGGCCCCCAC  
CTTCACCTGAGCCACAAAAGACGGCAGTTTGCCCATGCCAAGAGTATNTTCAGCAGCT  
TCGCAGCCGGACCATCGGTCACACTNTTATGATGAGGGAGAATTNAAGACCTCCACAGNG  
NATTATATTTTGGCATTATTTTCTAAAAATAAACCAAAATTTGGAAGCCAAAAA  
AAAAAAA

Sequence 619

TGGCGGCCCCGAGGTACCTACTATGTGTCAGCCATGGGGGGATACAAAGATCTATAAGGCA  
CAAGACCCTCAGTCTTGTAGTCGCCTGACAGCCAGCCAGCTACAACATAATGTGGAAAGG  
ACAATGGTGGGAAATGCACTCAGGTCTTCTTAATGCACAGAGTATGCTCAGGCTGTGACA  
TCNGAAGAAAACAGATATTTACCTTAACACGGACTTGGAGGACCTTCAAAAAACAGTGAT  
GGGAGGAAATCCAGTTTTAAAAGTCTTGATTTAAAAAAGAAAACACTTTCTGTGGATA  
AAGATAGGCTGCAGGAAATGTAACCTATGAAATTTCTCAAATTAGCTTTCAACACACA  
CAAAAAATTGCATTTGTTGAGGAGCAGAATGTAACCTATATTAAGAATAAACTACTA  
T

TTAGTATCTGAGTGGAAGTACCTGCCCGGGCGGNCGCTCTAGAACTAGTGGGATCCCC

Sequence 620

GCCGCCGGGCAGGTACATTCTAATTTTTATGAGACATAGATATGTATTTATAAAAAGATA  
GATGGAAAGAGAAGAAATTAACCTAATTTCTAAGAGCCAAATTTACTCAGAAGGTTTAGAA  
ACACCAAAATTAACAGCCAGTTTTCTTGATTTTCTTCTGAAGAAGAGATTGGTGTTC

T

Table 1

ATGGTGAGATATACTATGGCCTTGAGAGGCAGTTTCAACTTGAAAAGAAGATGCAGGTTG  
AGCAATCGGAGAGGACTTCAAAGAAGCTGATGAGCTCTCCCGTGGACTTACTTTGACAAT  
GTTGGAAGAATCTGGCTGGCTAGTCTGAACTGGAGTGGCTTGAGAACTCTGGGCTTCCTT  
ATTCTCAAAGTTCTTTTTGGTTTGCAACCCTTTTTTAGTAACCTGCAGAGGTATAAAC  
T  
GATTGTGCACACCCCCTGGTATTCCCCAGCCATGGGCATGGTCCCAGAATATAAAGTAT  
GATGGAAGGGCTTCCAGG

Sequence 621

GGTGGCGGCCGAGGTTAAGGACGCCTGCCCATGACAGAGCCTCAGGAAATCGCGATGACA  
GTTTACAGCAGGAAAATCCGTGGAGACAGCAGATCCCAGAAAGCGGCGATGTTTGCCTAG  
AACCCTGTACCTGCCCG

Sequence 622

CCCGCGGTGGCGGCCGAGGTACATTTATTTAACATAAAAGGACAATAAGTTTACTTTGTA  
TCTGAACTCAAAACAAAGTAGTTGTATATTTAACATTCAAATTGGGATTTCCCAATG  
T  
GACACATCATGAATGCAAACCCCTCCAGCCCATCAGACGCCAGGCTGCCTACTGGTAATC  
TGTGTATAGTATATAAACATGTAAAAATAGGTTGTATTTACTCTATGTATGATGCTAAT  
CAATGAACACTTTATTTATTTACAGAGAAAACCTATCTGTGAACTTTACTATATATCTG  
NTATTTTACCTTTATTTTTTTTTTAAATAAAAAAGGGGTTT

Sequence 623

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGCCATTGCTCTTTGAGTTTGGTCTGGCTAGC  
AAAAAGCTGGCTGTGTTATGTAATAAAGCCCCCTATAGTAATTAATTTAAAAAAGTT  
TTTTAAGCTGGCTGTTTTCTACCACTTCAGAGTCCTTGACCCCGTAATTTAGGGTCC  
CC  
TTCAGATTTGCAGACAGAAACAAACAAACAAACAGTTAAGCAAACTAACAATGGTCACA  
CAAATTATACAATTTCTGAGTGTCTAAGTGCATTGGAAGAAAGCTGAACTCCATAAAA  
ACATCACCTGCCTTCCATCATCATGAAAGCAGGAAAACCTGCCTTCTGTTGGGAGCAAG  
TAAACTCCAAAAAAGAGGTGTTGTACCT

Sequence 624

CCGCGGTGGCGGCCGAGGTACGGCGGGGAGCCGCTGGATACCGCAGCTAGGAATAATNG  
GAATANGGACCGCGTTCTATTTTGTGGTTTTTCGGAAGTGAAGGCCATGATTAAGAGGGA

Sequence 625

CTCACCGCGGTGGCGGCCGCCCGGGCAGGTACAACTTTGATCTTCTTTGAAATGTGGTT  
GTCCACTNGCTTTTCTGTTTCTGTCACAGTAGCTATAAACAGCTGTTTAAGGATATCCT  
T  
ATCTAAATTTCTGCCAATGAGGACCAATCGATTTGTTCTCTCAGTGTATCCTTCCAGC  
T  
CACTGGAGTCTCCTCNATCATAGAGCTCATCCCGCGTACCTCGGC

Sequence 626

NCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGATGAGTCCTAGGAGGCGCTGG  
CTCTTTGGCGGCTCGGAGGAGCGGCTGCTGCTGCTGCTGCTGCTGGTGGCCCCCTTG  
CAGATGTATTGCTGCTCTTGAATATTAGCCCATTTGAAAACGCCTGGGAAGTTCAGCCAT  
CAGTATGTCAGTACCTCGGC

Sequence 627

CCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTCTTCCAGAAAAATTCTCCTTGAGGAA  
AAATGTCCAAGATAAGATGAATCACTTAATACCGTATCTTCTAAATTTGAAATATAATTC  
TGTTTGTGACCTGTTTTAAATGAACCAACCAATCATACTTTTTCTTTGAATTTAGCAA  
CCTAGAAACACACATTTCTTTGAATTTAGGTGATACCTAAATCCTTCTTATGTTTCTAAA  
TTTTGNGATTCTATAAACACATCATCAATAAAATAGNGGGCAAAAAAAAAAANNAAAAA

Table 1

NNNNGGGGTNCTCCCTGATAAAGGGGGAATTTCCNTGCCCGTCCACGGGGGGTTGNCCCT  
GGAAAAANTTTGTTTANACCCCCGGGNTCCCTTNTTTTTTAAAAAAGGGGGGGGCA  
ACCCTTTTTTTTTAAAAANGGGGGNNTNNNCCCCCGGGGGGGGGGGGANTTNCCCCGGG  
GGGNTTNTTTTTTTTTTTTTNAAAAAAGGGGGGGGGGNCCCC

Sequence 628

GGNCGCCGGCAGGTACGCGNGGAAGACGGAGGCGGGTCTACAAGAGACGTAGGCTGTC  
AGGGAAGTGTTTATTTTCGGTCCGCTTCTGTTCTCCGCGCCCCTGTGCTGCTCCGACTC  
ACATACTCGTCCAGAACCGGCTCAGCCTCTCCGCGCAGAAGTCCGGAGCCATGGCGGT  
ACCTNGGCCCGNTCTAAACTAAGTGGAATCCCCCGGGCTGGAAGGAATNCGNATTAAAG  
CNTATNGATAC

Sequence 629

CCGCGGTGGCGGCCCGAGGTACAGACGACGTACCGTATATCTTCTTTTCGGCCAGTGGA  
GGATATCACC GAAGAGGACTTAGAAAAATGTTGCCATACTGTTGAGATAAAATCTATGA  
TAAAGTTCTGGGTAACACGTGCCATCAGTGTGACAAAAGACCATCGACACCAAGACAGT  
GTGTGCGAACCAGTTGCTGTGGTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACC  
GCTATGGGGAGGATGTCAGATCGGCATTGCTGGACCCGGATTGGGTGTGTCCCCCTGTC  
GTGGGATCTGCAATTGCAGCTACTGTGCGAAGC

Sequence 630

CGCGGTGGCGGCCCGCCCGGGCAGGTACATAGTGTGCGGAACCTCAAATCGGCATTTAGAT  
AGATCCAGTGGTTTAAACGGCACGTTTTTGCTTATAAAAAAGTGCAAAAAAGATGTGGT  
TTACAAGTTAAAGCTACAGAATCCCTTTTTGCTGTAATTGCACCAGTTTTAAAGCCTCT  
G  
GCAGAGCAGATTGTTTTAAACTTTGTTTTCTTAAAGCTTACAGTGTGGCTAATT  
C

TCCTCCCCTTTTTACAAGACGGGGGCCGAGGGTGGACACTGGTGGCAGGTAAAGGGATA  
CTGTCACTTTTAAGAAGCCTGCAGATTGAAGTGTAACATGGAGAAATTAGGGGCTGATTT  
TTTAACTGTGTGAGATTAACACGCCCGCCCTGTTATAAAATCAGGAAATCCAAACAG  
CGATTTACACCGATTAAACACCCCTTTATATTTTTTACAAAAATACACTGAGAAAATA  
ATCAAACGTTTTTCATCTCTCTTGTCTTTTTTTGTTTTTAAAAGTGTCAAAAGTCTACAT  
TTAAATATAAAAAATTAAAGTTAAACTCTAGCCCTTCAGTGAAGGAGACGTAAAAATGG  
CGTGGGTAAACAACACTACCAAAAAAAGAAAAAAGAAAAAAGGAAAAAGGAAGG  
AATAAAGAAATAAAGGAAGTAAAAAGAAAGGAAAGAAAAAAGG

Sequence 631

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCAGCTTGCCTCAAGTCTGGAAGAAA  
TTGGCTTGGGCTCATCAAGTTGAAGGGACCACCAAAAGAGCTAAGATTGCTTGTAATACT  
CATGTGGCCCCCTAGGATGCACCGACTGGTAGTGATGAGCCAGGTTACAAGCAGACACTG  
GCTAAGAGCTCAGACACTCTGGCGGGGGCACATGTAAAGATTCATCGTTGCAACGAATCT  
TTTATATATCTGCTCTCTCCCTTACGATCTGTGACAATTGAGAAGTGCAGGAATAGCAT  
C  
TTTGTCTTGGGCCCTGTAGGGACTACACTTCACCTCCACAGTTGTGACAATGTTAAAGTC  
ATTGCTGTTTGCCATCGTTTGCCATCTCTTCTACAACAGGTTGCATCTTT

Sequence 632

AGGTACCACACTCAGGGCAGTTTCCAGCTCCTCTCACAAACAGTAAATCTACACAACTTT  
CACAGAGAGTGTGTCCGCACACATTCACCATCAGCTTCAAGGAGGGGTTCCGATATTGG  
TGGTCTTACACCGAGGGCAACCTGATCGTCCATGGCGGTTTCCCTCCTACAGACTCTCG  
CAGGCGCCTGTTTCAGCCAGAGCCACCTACAAGCCCCCTCCCCGCGTACCACCACACTGT  
CCCAAATTACCTCTTCATTACCCAAATCAAAGAATCTTCTGTTTTCCCAATCCTCAA  
A  
GGAATGAAGAAAAACCAAGAGCAAACTCAAAAGATGATTTTTACCATAAACCTCAAATG  
TGGCTTAACAAGTACCTGCCCGGGCGG

Table 1

## Sequence 633

GCCCATTGNTGTTTGTGTTTGCTTGAAGACCAAGACGGAGTTGGGCCTCTTGATTCCC  
AGTGGCTGCAAGAACTGGGATCCCTCTCCTTCTCTCTTCCCCTCTCCCCCGCGTACC  
TGCCCGGGCT

## Sequence 634

GAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTAAGTGAACCACTTCCAGAGTCTAAAG  
CAGCTCAGATGTTATCTCTGGGGGAATTAGTGTCCCTCATTTAGCAACCTCCATACCA  
CAAGGTCTCTGTCTGTAGTTACTGGGATTATCCAGATACACTATCAATGATACAAATTC

A

TAGGAGTATTAATGCATTTCTTTAAACACAACCTTGATTAAGAAGCAAATATGTTAAGCA

G

TTTTCTTTTTCTGCTGCTAAATTACAGTTAGACACTTCAGTATCTTCTTTACATGTGT

ATATAAATTAGTAAGAACCTGCATCCAAAGCAATGTAGTGTGTGTATGTATCTATATAT

A

TTTATTCTAACTCAGCACTTCAGAAGCCTTTTTGAGTTACAACAATATTTTAGTTGCCT

CATCTGTAGAGGTAAAATTTCTATATTACCAAGCTCCAGAGGAATATGATATTTTACAGG

CACAATTTTCTGGCTGTAGTCCCTGGGGCATTTCATTTGCTGGCCTCCA

## Sequence 635

NCTCCCGCGGTGGCGGCCGAGGTACAGATGATGAAGCTTCCAGAGCTTATCTGTCTCTTA

GACAGAATCACATAAACACACAAATACAAGAGGTTATTTTCAAGACACACACTTGCAAG

TAATCTTCTATAGAAATGGCCACAGCATTATAATATTCAAAATATGGAAGATTGCAGT

C

TGAGGATTTTTANGAAAAAAAATCAAAGGACTTGCCAAAAGGATAACTACATAACAGAT

ATGACAATCTACAGGACAAAAAGACAACATGTCAACCAAATATTGTTTCATACACAGCGTT

AATGGAACACAGTAAACACCTTTAGCAGTGTGCATGTAAAGTCTTTTAGTAAGATTA

T

CTGTAATGAGGTTTGAAAGTAAATCACTTAGTAGACAAAGTAAACCACCACAGAACCAGG

AATAGCACCCATCACTGCTGCTTTGTCACTCCAGAAAGCTGAAAGTCAACCCGAACAATG

AAAAAAGTCAAAGAAGCATTTCCTTTGAATTCAGTCCTAAAAATATGAATGCCTTATA

ATTAATTTCAAATAAGTATCTTACAAGTGTTCATGAAACATTGGTTTT

## Sequence 636

GTGGCGGNCGAGGTCTAAAGGGCAAGGTTCACTACTACAAAAAGGAAGTTGTCTAAAAGC

AAGAATTCATTAACNGCTGGGTAAGAAAAGTCAAAACACTAATGAGTTGTCCATGAAGC

CAACTGCTAAGAACGCGCTCACTATACCGCCGACATTGAAGACACTACGCACGAAGCCT

TACTTGGCGAGTCTGAATTTCTATTAACCTAAGGGCAGAGTGAGGGAGAACAAGAGCCTA

CTTCCGTAACATTTTAGTATCCAGATAGTACCTGCCCGGGCCGGCCGCTCTAGAACCTAG

TGGGATCCCCCGGGCTGCAGGGAATTTTNTATATCAAAGCNTTATCGATACCCGTCGGAC

CTTNGAGGGGGGGGGCCCCGGTACCCAGCTTTTGTTCCTNTTAAGNGAGGGGTAA

ATNTGCCGCCGCTTGGGCNTAATCATTGGGNCATAGGCTTGTNTCCCTGNGGTGAAAAA

TTGNTTAATNCCGCTTCACAANTTTCACCACCAACCAATACGGAAGNCCGGGGAAGCAA

TAAAAGGTNNTAAAAGGCCTTGGG

## Sequence 637

AGCTCCCCGCGGTGGCGGCCGAGGTACAGGAAAGGGAAGCACAGTTTGGAACAACAGCAG

AGATATATGCCTATCGAGAAGAACAGGATTTTGGAATTGAGATAGTGAAGTGAAAGCAA

TTGGAAGACAAAGGTTCAAAGTCCTTGAGCTAAGAACACAGTCAGATGGAATCCAGCAAG

CTAAAGTGCAAATTTCCCGAATGTGTGTTGCCTTCAACCATGTCTGCAGTTCAATTA

G

AATCCCTCAATAAGTGCCAGATATTTCTTCAAACCTGTCTCAAGAGAAGACCAATGTT

CATATAAATGGTGGCAGAAATACCAGAAGAGAAAGTTTCATTGTGCAATCTAACTTCAT

GGCCTCGCTGGGCTGTATTCCTTATATGATGCTGAGACCTTAATGGACAGAATCAAGAAA

Table 1

CAGCTACGTGAATGGGGATGAAAATCTAAAAGATGATTCTCTTCCTTCAAATCCAATAGA  
TTTTTCTTACCAGAGTAGCTGGCTTGNCTTCTAATGATGATGNATTGAGAATTCAGCT  
T  
CTTT

Sequence 638

CGGTGGCGGCCGCCGGGCAGGTACGCGGGAGAAAACTAAACCTTCATTTACTGTGAACA  
TCTTCTGACTGTGGCTTCCAGATGCTAGTTTACAGAACACCACACAGCAAGACCAAGCT  
TATGCTGAGTTGACGGAACAATGAGTAAACATAAGGATATTACTGTGACTTTGAAATTCT  
GAAATTGTTCTTTCTTAACTTTTGCATTAATAATCACATTTATTTATAAAATAATGAAAA  
AA

Sequence 639

CCCCGCGGTGGCGGCCGCCCGCNCNGGTACATGGCCCTTAATNCCATNAGATTTGTAGA  
TCTTAACCACGGCAGGTCACCGAGGCCCTCGGAANTCCCTTTNAGCTCCAGCTTTACCCAC  
ATCAGCTGCTAGACGGGTACCT

Sequence 640

AGACGATTGAGCTNCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGGGCTGTCTCACC GG  
TGAGACCTGGAAGCGGGCGAGTCTCGTGCTGTGTCGGACCTGCAGTCCCTGGCCTTCCGC  
CACCATGGAGTACCT

Sequence 641

CCCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGTCTTCAGAAACCAGGCTGCTTTCAGG  
AACATTGCTGTGGATTCCCAGCTTTCAGACAACACATGACTAAGACAGAATGAGACCACT  
CTAGTTGCCCTCATGGGAACTCGGGAAAAGACTGCAAAAACAACATTGTTTCTCCCTTTG  
GAATTCTGGAGTTATAAGGCAGAGGTCCCCATCTTCCCGAACTGGCCTATTCCGCTAGA  
AGCAAGATGGCTGAACCTCAATACTCATGTGAATGTCAAGGAAAAGATCTATGCAGTTAGA  
TCAGTTGTTCCCAACAAAAGCAATAATGAAATAGTCCTGGTGCTCCAACAGTTTTGATT  
T  
TAATGTGGATAAAGCCGTGCAAGCCTTTGTGGATGGCAGTGCAATTCAAGTTCTAAAAGA  
A

Sequence 642

TCCCGCGGTGGCGGCCGAGGTACTTGGAGAATATTTCCACAATAGCCGATGACTTGTCT  
TGTTGACAAGAGAAAGTTCTTTGGCTGTTACCCTCAATGATAGTGAGGTCCATTGCCGTC  
TATTAAATGGAGATGATTCCATCTTGTCTACAGACACTGAAATACCTGGCTAAAAGCCGC  
CTTCTCTGCGCTGCTACCAGCCCTGTCACAGGTCCCGGCGCTCTACCTCCCCGCGTAC  
CTGCCC  
G

Sequence 643

CCCGCGGTGGCGGCCGAGGNACNAGAAGCTCACTGGCTGTGCTAAACCAAATGAATGGAA  
AGCGCCAAAAGTGATTTTATACCAAGGNCATNCATACAAATAAACAAAATCCTATCCT  
CTTCTTTCTATATNNTNTTTCTTACATTTCTTATACAAATAACAGAATGCTTCATTTTAT  
TCACTTCAATAGGACAAAGTCCTTAAAGAAAGACTGAAAAGAGCTGATAATCAAAATCCC  
AAATTTTATGCTTATTTTTGGGTTAGNCGCTATCAATTTTCTGACATATTAACATAGGCA  
GGAAAACATTCTCAGTAAATTGAGCATTTGAGTCTACAAATGTCTTGAAGCACTCTGGCA  
AGTTACATGTATCCCATGTTGCTTTTGGNTTCCCATCTCTTCTTTGCTTCAAACCCCCA  
T  
GCAAGNTTTTTNTTTTTTGGGCAGNCTGTGAATTTTCAACCTCCTTTTT

Sequence 644

GAGCTCCCGCGGTGGCGGCCGAGGTACACCCTCTGGCCTCTCCCAAGCAAGCAGTGAGGT  
GTGCATTGTTAGAGGTGCACCGGGAAGGGAGCTTGGTTTCGGACCCAGGACATCCTGTC  
CGCAAGCAGCTGCTACTTCTTGGGCTTCTCTAGAATATTGAGGAATTTCCCCCGTGTCAT  
CTCTCTGGACTCATCCAGCCCCAGCTGATAGGCTAGGTTCTGTAGGCCTCGAACCTTCTC

Table 1

CATCAAATTAGCCGTGGTGAGACTCCCCAGTTCTTTCAACATGTCGATGTCATCACGTTT  
TATCTCAGCCATCCATTTGGGTGGAGAACTAGTAATAGGACTTTTGAAGGAAGCTGCAAA  
TTCAGCAACACCTGGTAATTGTTCTGGCCAAAGATCTGGTGAGGCACGGTCAAGTTTTTC  
AAACTTAGCAAAGATGCTTCCAGATCTGTCCCCGTCTGTGGGAGACGCCATCTTTCAAC  
CCATGTCACGTCCCCGCGTACCTGCCCCGGCGGCCGCTCGAGCCAGGAACCGTAAAAAG

Sequence 645

CCGCGGTGGCCGGCCGCCGGGCAGGTACTTCAGGGAGGCCTATATATTGGCACCCAAGG  
AATGCCAGGACTGCCACCTGCTGCTCCAGCGTTAGCCTCACTCGTGTGCTTACTCACTTT  
GACTGCCTTTTTGTCTATTTCTGGGAGGTTGGTAGAATGAAAGGGATGCTCCAAGGCAAG  
CAGATGGCCTGTCCACCTCCTATATATTGACAGTGCCAATGAGTGTAGAGTCTTGCTACA  
AGAAACAAAGTCATGAGAAATGCCAGGCTTCTGTTACACCCAAAGACTGCTGGCCCTCC  
TACTCTATCCTTAGACCAGAACTTTTTCTTCTAAGCACTTGCTACCGGGAAGGTT  
GA  
GGAGTCTTGTTTTACCGTACC  
T

Sequence 646

TCNCGCGTGGCGGCCGAGGTACCGGCCAAGCCTGGTCCCCTTCTTGTTGGGCACTGTGT  
ATGGGCGGAGAAAATCCANCTTGTTCTTGCTGATGACGCAAAGGTCAATGTTGCTTCCGG  
AGCCCAGGTTCACTGAAGATTGCCANNTGCCGATGGCTTCGCTCACCANGATTCTNGGCT  
TNCTNCTCCTCATTGTCTGGCCTAAACTTTATCTTCAAATACAGACCATTGCTTGCTC  
A

ANNGAGACCAAGAAACCCATNNGGTGACCACTAAGGGCAACTTATCAGNTTGTATTNCAT  
GAAGGGATAGGATGTCTTGATTAGGGTNGGAGAGTCCCAGGTAAATCTATGCTACTNCC  
CCCCCTAANAACCTNAGNNTCTNGCAACCCAAATTNTAAACNNTTGNATACNCTTGAAAA  
AAGGCATTCTGNCTTTNAGCNATCCGATTTGGCCTGTNCACAACTCTGGGGGAAAGAC  
TGGTCCAGTTGNNAGAAGGGGAGTTGGGAGCNTCCAGGTTTGAAAAAGNAAA

Sequence 647

CTCCGCGGTGGCGGCCGCCCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGACACGCC  
TGGGTGACAGAGCGAGAGAGACTCTAAAAAAAAAAAAANGAAAAAGAACTGTTGAGGGA  
TACACAATATGTCAAATATTAAAGCTTTTTTTTAAATTGGGAACNCTCAGGATAATTGG  
G

ATAATTAATTAGGCAATGATNCAAAGATGTTTTGTTTTAAATTCANAACCCNCCAAAG  
G

TNNAACCNNTNGNAANAATTTTTTGGGTTTCCCCCCCCCNNTTTTTTTTTNTNNNCC  
C

CNTNAAAAAAGGGGGCCNNCCCCCNNTTGGGAAANNNTTTTTTTTTTTNNNGGCC  
CCCCCNNTTTTTTTNCNGGGGGGGTTTTTAANAAANGGGGGNAAAAAANNGNGN  
GTCCCCCCCCTCNNNNAAAAAAAAAAAAANANGGGGGGGGGGG

Sequence 648

TGGCGGCCGCCCGGCAGGACTTTNTTTNTTTTTTTTTTTTTTTTTTTATTTTTTTT  
NATTT  
TTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCNCGGGGAANNCCCCNTTNTNNGGNNTTT  
CCCCNNNGGCNCCNANANGTNAANCCNCCNANCCNNGGGGNNGGGNCNCNNNNCCC  
NNNNGNNGNNNAANNNGGNTNNGNNGGGNNGGGNAAAAAAGGGGGGCCNANGGGGNCCCC  
NCCCCNTTTNCTGGGGGGNAAAAAANGGGNCCCCCCCCCGNAAATTNNGGGNNNT  
NAAAAANANGGGGNCCCCCCCNGGGGGGGGGGNNAAATNTAANAAAAANTTTTNTNCC  
CCCCCCCCCCCNGGGGGGG

Sequence 649

TTGACTCCCGCGGTGGCGGCCGAGGTACACGATAGGAAGAATGTATATTCTGTGGTTGTT  
GGGTGGAGTGAATGTCTATGAGGCCCTGACTTCTTTCATTGAGGAACACAGATTGAGAG

Table 1

CTTCTGCTGTGCAGTAGGGGGCATCAATAGTTCATTTCTTTTATTGTCTGCTACCAT  
T  
CCATTGTATGGATTCAACCTAGTCTGTTTATTTCATTCTCCAGGCTTCCACCAGGCC  
AT  
CTCTTTCACTTCGGGGGCACCTTTCCCAGGGAGATGAAGAGACACAGGTTGGCCTCTGCT  
GGGACTCCACATGTCTCCCCGCGTACCTGCCCC  
Sequence 650  
TTGACTCCCGCGGTGGCGGCCGAGGTAAGTGGGAAGAAGGTAAGAAACACGTTGAT  
TAACACCCTGTGTTCTGGCAGGTGGGATCAGCAATATGTAATCCAACCTCACCTCCATGTT  
CAAGGATGTCCCTCTGACTGCAGAAAGAGGTGGAATTTGTGGTGGAAAAAGCATTGAGCAT  
GTTCTCCAAGATGAATCTTCAAGAAATACCACCTTTGGTCTATCAGCTTCTGGTTCTCT  
C  
CTCCAAGGGAAGCAGAAAGAGTGTGTTTGAAGGAATCATAGCCTTCTTCAGTGCCTAGTA  
TAAGCAGCACAAATGAGGAACAGAGTGGTGACGAGCTATTGGATGTTGTCACTGTGCCATC  
AGGTGAACCTTCGTCATGTGGAAGGCACCATATTCTACACATTGTGTTGCCATCAAA  
TT  
GGACTATGAACTAGGCAGAGAACTCGTGAAACACTTAAAGGTAGGACAGCAAGGAGATT  
CAATAATACTTAAGTCCCTT  
Sequence 651  
GACTCCCGCGGTGGCGGCCGAGGTAAGTGGGAAGAAGGTAAGAAACACGTTGAT  
TCCTGGAAATTAACATTGGCTCCACCTTCCAGCAATTGCTGGACCAGGTCAACATCTTCG  
TTTTGAACAGCTTTAATCAGCAAGTATTGTTTCCACTGCAGCCCTTCTACCGCTGGAG  
GACGTGGGTCCCTCCTGGGGGTTGTTATGATCCCTGCTCTCCATGACGGTAAATGCCACC  
TGCTACCACCTTTAGCCTTTTCTTGAGAAATGCAATTTATCTCTAGCACTTAATC  
A  
AAGAAGCTTTGAGTGTAATTGGGATTCTCTGGCAACAGAGCAGCAGTATGAAGAAGGAA  
CAATGTTCTCAGTCTTCTGACATTCCACCTGCTCAACTCAAGACGTCTCAATTATTCCT  
T  
TGGCAGCCGCAAGCCTGGAAGACTGCTTGCAGCCCGAGCAGTTTCTCTGCTGCCCCC  
GCGTACCAGTGAGGAAGGA  
Sequence 652  
TTGAGCTCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGAGGGCCAGGTCTCAGGG  
CTCCTGGAGCTGCAGGCGGCGGGAGGGGCTACAAATGCTTGACTCAGTGATGCAGAACCT  
TTCAGAGTTAGCTGGAAGCCACAGCCCTGCCTCTTGATGCAGCCTGGATCCAGCCGGTGT  
GAAGAGGAGACCCCTTCCCTCTTGTGGGGTTTGGATCCTGTGTTTCTAGCCTTTGCAAAA  
CTCTACATCAGGGATATCCTGGACATGAAGGAGTCCCGCCAGGTGCCAGGTGATTTTTG  
TACCT  
Sequence 653  
TCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCTGTGAACTGAGGAATTATAGATAAACCTT  
AGGTCAAATCATTTGCAATTGCATTGGTGGTATTGAAAAATGATGAGATTTCTCTGACA  
GAGAGCTTTGTCTAGTTTTTGTCTTCATAGGTCAAACTGGCAATATTCTCTTGCT  
G  
CAAGATAAAGTGTTTGTGCTTCTATCACCATATGCATGAACATGTAAGAATCAGATACAA  
TTTCTGCTTCATCAGTTTCACATGTTTGTGCTCACTGAAAAATGCATCTACTGTTT  
A  
TAGCTCCCAAGGAGACCCCAAATCCTTTTTTCTTTTGTGATGGAGTCTTGCTCTTGTT  
G  
CCCAGGCTGGAGAGCAGTAGCGGATCTCAGCTCACTGCAACCCCCACCTCCTGGGTTCA  
AGGTGATTCTCCTGCCTCAGCCTCCCCAGTAGCTG  
Sequence 654  
GACTCCCGCGGTGGCGGCCGAGGTACCTGTTACCCTTTCAAAAGTAAGTTCTCCATCCC

Table 1

ATAAAGCCATTTAAATTCATTAGAAAAATGTCCTTACCTCTTAAAATGTGAATTCATCTG  
TTAAGCTAGGGGTGACACACGTCATTGTGCTATATGTATGTGACTTCCCTCCCCCTGCCA  
GAATACTCCTTGGTCAATTGTAGGTATTCTTTTGGTTTAATTTTGGCAATGTAATTAA  
AAAATGGTATGTCATTTTAAAATTTGTATTTCTTTCATTACAAATAAGATTGTTATGTC  
AGTATTGTTATTGGCTTTTCGTATTCCTCTTAACGTGAACCGTCTGTTTCATTGTTTTAC  
CTGTTTTCTGTTTAGCAAGTAAGTACCTGCCCCGGCCGGCCGCTCTAGAAGTGTGGGAT  
CCCCCGGGCTGCAGGAAATTCGATATCAAAGCTTAATCGATACCCGTGACCTCGAGGG  
GGGGGCCCGGTA

Sequence 655

TNCCGCGGTGGCGGCCGAGGTACGCGGGGGAAGTCGGCCATGGACTGGAAAGAAGTTCTT  
CGTCGGCGCCTAGCGACGCCCAACACCTGTCCAAACAAAAAAGTGAACAAGAATTA  
AAAGATGAAGAAATGGATTTATTTACAAATATTACTCCGAATGGAAAGGAGGTAGAAAA  
AACACAAATGAATTCATAAGACCATTCCTCCGGTTTTATTATAGGCTGCCTGCTGAAGAT  
GAAGTCTTACTACAGAAATTAAGAGAGGAATCAAGAGCTGTCTTTCTACAAAGAAAAAGC  
AGAGAAGTGTAGATAATGAAGAATTACAGAAGTTATGGTTTTGCTGGACAAACACCAG  
ACACCACCTATGATTGGAGANGGAAGCCGATGATCAATTACCAAAA

Sequence 656

CGGTGGCGGCCCGCCCGCTGGTACGCCCAAGGCATTTAATGCCACAGTAACAGGGCTGT  
TTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTGTGCTGAGAGGGGGGAAAGAAGC  
ACAAAGTTTGGTCTGTTGCATAATTGAATTTTAACTCTTATCCACAACAACACTTT  
TTCGTGCTCTGCTGTGTAAAAGACATCAGATATATTACAGATTTTCAAACAGGTGAGCAT  
NCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTG

Sequence 657

ATTGGAGTCCCCGCGGTGGCGGCCGAGGTACATTCCAATGAAGAATTTCTTCATTCTGA  
TCTCCTAGAAGACAGCAAATACCGAAAAATCTACTCCTTTACTCTTAAGCCTCGAA

Sequence 658

CACGGGTGGCGGCCGAGTACCTTGTGGGCATTAGGTCANTNTTGTATACACTTTCACAA  
AAGATTTTATCTTTGATCTCTTGGCGATCTTCTTCTTGGCCATGGCAGCTGTCACTTTG  
C  
GGGGGTAGCGGTCAATTCCAGCCACCANAGCATGGCTTGTAGGGGCNATCTGAGGTGCCA  
TCATCAATGTTCTTAACGATNACAGCTTTGCGTCCGGAGTAGCGTCCAGCCAGGACAAGC  
ACCACNCTTCCCAGGTTTCATGAAGTTGCCATTTTCGGCAGCAACCACCCCGGGGNCCTA  
CAGCAAAAAGGCCCCCGCTGTACTCTGCCCCGGGGCGGGNCCGCTTCTAAGAACTAG  
GTGGGANTCCCCCGGGGCTGGCAAGGNAATTTCCGAATATTCAAAGCTTTATTCGATA  
ACCCGTGCGACCTCGAAGGGGGGGGGCCCCGGGTACCCCAAGCTTTTTT

Sequence 659

CTCCCGCGGTGGCGGCCCGCCGGGCTGGTACGCCCAAGGCATTTAATGCCACAGTAACA  
GGGCTGTTTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTGTGCTGAGAGGGGGA  
AAGAAGCACAAAGTTTGGTCTGTTGCGTAATTGAATTTTAACTCTTATCCACAACA  
A  
ACACTTTTTCTGTGCTCTGCTGTGTCAAAGACATCAGATATATTACAGATTTTCAAACAG  
G  
TGAGCATCCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTGATGGAGTGAGGAG  
ATTTGGTTGAATGAACGCTAAGATGGCCAGACNCACCTCTTNGATCTCAACTCTGCAGCC  
TGGG

Sequence 660

CCGCGGTGGCGGCCCGCCGGGCGAGGTACTATGACCTGAAGAGGGCAGAGGCCATCACTGTT  
GGTCCGGTCTCCACCTGGGGAACTGAGGTTGCACAGTGTCTCTGTGGTGACGAGCAGGG  
CTTCATCCAGTGCCTCTGTCCCCACCGAGGGGACTATGGGAGACATGGAGGGTGTGTGAG  
CAACAGGTGAGACTGGAGCCAGCTGAAAAGTGGGAGACCGACCCAGCCAACAACAATGT



Table 1

CGGTCTCTGTCTTGGCACCTGCAGGAAACAAGCTCCTACTTCCAGAAAAAGTGCTCCTGG  
GACTCCAGGATACCAGGCATCTGGGTAAGCTACAATGCTTAACCACTTAACACAATCAGG  
AAGCAACAGCCATGCATTGCGGGAAAGGAACTTCAGTGTTGTGTGGCTTAGTCTCCAGAC  
CTAACTTTTCTTTGGTACCTCGGGCCGNTCTA

Sequence 661

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGACGACTTTTTTCTCACCATGAA  
TGTCACCCCAGAGGTCAAGAGTCGTGGGATGAAGTTTGCTGAGGAGCAGCTGCTAAAGCA  
TGGATGGACTCAAGGCAAAGGCCT

Sequence 662

GAGCTCCCCGCGGTGGCGGCCGCCCGGGCNGGTACTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTATTTTTTATTT  
TTT

TTTTTGGNCNANANAAACNAGTTTTTTNAATTNATTNAGGGGGAANGNGGGGNGNCTTTG  
GANAANCCNCNNNGAGGGCTNTNNGGGNGTNTCCNGNGGCNNGGGGNNAGGGGTNNGGG  
NCTNNGGGNNGGTTTNNAGGGGCCNNGNCCCNNGGCCNCTNTAAACNAGGGGANCCCCC  
GGGCNNGNGGAATTCGATNTCAAGCTTNTNGANCCCNCCCCCCCCCGGGG

Sequence 663

TCCCCGCGGTGGCGGCCGAGGTACTTGTGGAAGGTAGTGACCAGCACAGCCNGCGCCTGC  
TCCAGAGAACTGCACATCATGGATCTGTGGCAGACCAGGTGGCAGAGACAGACCCAGGAA  
GGAGAGCAAGGCCCGCGGTACCTGCCCG

Sequence 664

TNCGGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCGGTATCTGTATCGGGCCNTACTGG  
CTTNANGNGCNNTTCCCTTCCNNGNCCCCCCCCNNGGGGNCCNCAANTAAGGGTTTNGG  
ANCCNCTNTTTTTTNATCNCGNCAGCANCTTAAATGCCTGGGAAGATGGTCGTGATCCT  
TGGAGCCTCAAATNTACTTTGGATAATGTTTGAGCTTCTCAAGCTTTTAAATCGAGA  
C  
CACCCAGAATCTAGATATCTTGCTCAGATTGGTGACTCCGTCTCATTGACTTGCAGCAC  
CACAGGCTGGGGAGTCCCCATTTTTCTCTTTGGAGAACCAGATAGGATAGTCCACTTGN  
ATGGGGAAAGGTGACCNAATGGAGGGGGACCACATNTTACGCTTGACAATGNATCCTTGG  
TTAGGTTTTTGGGGACCGAACCCTCTTAACCTGGTGCCCAAGCAACCTTGGNGGAATCT  
ANGGNAAATTG

Sequence 665

TCCCCGCGGTGGCGGCCGAGGCTAACAAGGAAAGCCCCCTGGAGCTCCTGTAATAAGAATG  
TGGTTGGAAGATGCAAACTGTGGATGATCATCACCTCCATTTTCCTAGGTGTCATTACAG  
TGATCATCATAGGCTTATGTCTTGCTGCAGTAACCTATGTTGATGAAGATGAAAATGAAA  
TACTTGAATTATCATCAAACAAAACATTCTTCATCATGCTGAAGATTCCAGAGGAGTGTG  
TTGCTGAAGAGGAATTGCCTCACCTGCTCACCAGAAAGGCTCACAGATGTGTACCT

Sequence 666

GGGTGGCGGCCGCCCGGGCAGGTTTAACTCTCAGGTCTCCCTCATACACTTCTCAGCCTCA  
GCACCTAACCTCACACAACACTCCAGTATTGATGCAGTCAATCTTGATAACATTTTT  
T  
GAATGTCCAATGTGCAAAGCACGATGTTGAAATTATACAGAGGTGAATAAGACAAAAAC  
TCTTGCTCTCAAAGATGTCAGTCTTTTTCTTTGCAAGGATAACACATGTAGAGTAAAT  
G  
CATAAAGGGGACTAATTTTAAATGTACCT

Sequence 667

GGCCGAGGTACTGGAGAGTCGGCTTTGACCATGGCCTCAGCTCAGCTCCAGGTTTGGAGC  
GGAATAAAACAGGAGCTAGCAAGATGTCTCATCTGAGCTTCCCAGTGCCCAACTTATCTG  
AGGCCTGGGGCTGAAGCCAGCGCTGACGGAT

Table 1

## Sequence 668

GGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTCTGGTCGAAAATTT.  
 TT  
 GTTGAATTTTAAAGAAAAGAAAGGCAAAGTAGCACTCAGATGGCCTTTTTTTGTAAAGT  
 GAAGTCAACCTAATACTCTGGTGCTTACJTTCGCAATCTTTCCATAAGTCAAGTATTA  
 G  
 TGTTAACAATACACTTAAGAAGTAAGGATAAACCCATCAAGGTCCACAGCTAAATAACCA  
 GCAGATTCAGAACTTTATGTATTTGGGAAAAGTAAATATACAACAGACATATCCCT  
 GCCCTGATTAAGAGGGTAGATAAAAAACAAACATAAAACAATTTACTTGAGATAGTAAT  
 AAGTTATTTGAAA

## Sequence 669

GGATCAATAAAATCTGTGTGTACAGCGGCAGACTGAAGGACGGGTGCCTGTTTCAGCC  
 ATGAGGTAGTCCCTGACCATCTGAGAACCAAGCCTGACCCTGAAGTGGAGAAGCAGGAGA  
 AGCAACTGACGACAGATGCTGCCCCGATTGGTGAGATGCAGCCCAGGTTGGACTGAGTC  
 ACTGCCTTGCTGCCCCATCCCCATCCCATCATGAGAAGCTAGGCATTACCATTCCTGTCT  
 AGTAGGGATACATAGTTGGTTGCGCCTAAGTTGCTTCTGGCAGAACCCAAGGAATAAAT  
 TCTCCATATCGTTTCTAGTTACCCCTAATCTCTGCACAAATTTGTGTGTTACAGAAGC  
 A

GATCCAGAGCTTGAATA

## Sequence 670

TNCGGGTGGCGGCCGCCGGGCAGGTACATTCTTTTTTTTTTTTTTAACTTTTAGGGT  
 CT  
 TGCCTATTTGCATCCTAAGGGCAAAAGGCTTAGAGATATCAANGGGCTAATNTTTATN  
 GNCAGACCATGGCGGATGTAAATTAGCTGCTTTGGTGTGGGCTGCAAAAATAACAGCTA  
 CCATTGCAAAACGAAAATCTTTCATTGGCACCCTTACTGGATGGCCCCAGAAGTTGCAA  
 GCAGTAGAGAAGAATGGTGGCTACAACCAACTCTGTGATATCTGGGCAGTAGGAATAACA  
 GCAATTGAACTTGAGAACTTCAGCCACCCTATGTTTTGATCTCCACCCAATGAGGGCTCT  
 CTTCTTAATGGCAAAAAGTAATTTTCAGCCTCAAACTAAAGGGCAAAAACAAATGGGC  
 ATCAACATTACATAATTTTTGTCAAAATAGCACTTATCNAAAAAAAAAAAAAA

## Sequence 671

GCTCCCGCGGTGGCGGCCGAGGTACGCGGGTCTTCTCATGCTCCGTGATGCATGAGGCT  
 CTGCACAAACACTACACGAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGAGTGCGA

## Sequence 672

AGCTCCCGCGGTGGCGGCCGAGGTACTCTTCTGCACTGTTCTTTCTTCTAATAAACTT  
 TCTTTTTCGAACCTATACTGTCTTCTGTAAATCTTCTTACTACCCTATGACCCGTGAG

C

CAACCACTTTCCGATGCCAGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTT

TT

TTTTATACCTTCCAATTGGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACCTA  
 AAAAGAGAAGAGTTAATTACCTGAAAAGCAAGAGAAAACAAGAAGGGTAAATTTGAAC  
 CAAGGGAAATCATTTAAGAAGTGTCTGGTATTTTCAAATTCTGTGAGTTGTACATT

T

GTGATAAGTAAATGTTTAGGAATAAAGGATGGAACATGCTTATTTATTTAACTCCCC

C

CNAAAAAA

## Sequence 673

GGATTGAGGTCCCCGCGGTGGCGGCCGTGCTCTTAATCATGGCCTCAGTTCCGAAAACC  
 AACAAAATACGAACCGCGTCTATTCCATTATTCCTAGCTGCGGTATCCAGGCGGCTCG  
 GGCTGCTTTGAACACTCTAATTTTCAAAGTAAACGCTTCGGGCCCGCGGGACACTC  
 AGCTCCGCGTACC

T

Table 1

## Sequence 674

AGCTCCCGCGGTGGCGGCCGAGGTAAGTGAAGCCACAGTGTCCGGATGGAAGTCTGCAT  
CTGAGGTTGCTCAGTGTCCCGGTCAATTCATTTACACATTTAACTTGCATTAAAGAGCT  
G  
TTCTTTTCTGTGGCCTAGACTCTTTTCACTGATCTCAAAATAAACTGGTTTTTTTCAAAA  
AAAAAAAACAAAAACAAAAAAAACACAAAAGCTGCATGTCTAAAATTACATGGAGTTAG  
TGTCTATTCTTTTCCCTTTTGCAGCAACTTACACAGCATTTTAAACACCTTTTTTTTC  
TAGTTTTTTTGTTCGGTTTTGTTTCCATCAGGAATTTGAGTTCTCTCTAACCCAGCTTA  
CTGTGGGACATAGGAAAACCTAGTAGAAATACCTTTGGTGATCTTGTGAGTTTAAGTCT  
GATCTTGGATCTTAACTCA

## Sequence 675

NATTGAGCTCCCGCGGTGGCGGCCGAGGTACGCGGGGCTGTAGTGGCTTCGTCTTCGGT  
TTTTCTTCTCCTTCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGC

## Sequence 676

NCCGCGGTGGCGGCCGCGAGAGCACATGATGACCACGCCATCGTCCAGTATGAGTGGGCA  
CTGCTGCAGGGGGACCCGTCAGTGGACATGAAGGTAACGCATGTTGTACTGCTGGCAGC  
TAGGTCTGCTGGGGCACACCGAGCTGTGAGGGAGGGAGGCCAGCATGCGGTGCTCCTGCC  
CG

## Sequence 677

TCCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGAAGGATTCTGTAAGTATGTAGCAGTG  
TTTCTTAGGTAAAAGTCTCTTTTGTACTGAAAGGGAAATGGTCTCTAAACACTGGTC  
A  
CTGTAGCAGGTAAACACTACTCTAACGTGGAGAAATGAGCTTCATGCTGAGGTAGTGGTT  
GCCTTANAGCTGTTNTTNTNCTGNANAAANCNAAANGGGTTTGNNTCCCNNGTANNNTN  
NAATTTNNTNTTTGNCCTAAAGTTTTCTNTTCCNCNNGCCCNANNTTCCCCGGGGNAGN  
TTTCCCTTTTCCCGGGTTTTNAAAAANNGGNGGGNGGNTTTAACNNGGNCCCCCGGGN  
CCCCCCCCANNTTTTTGNAATTTCCCGGGNCGGGCCGTTTTTNAANNAANANGGGGGTCC  
CCCCCCCCNCNCGGNNNAATNTNTNAAANACATTTTTTCCCCCCCCCNCCCCC  
TCCNNGGGGGGGGGGNNGGCCCCCCCCCCTN

## Sequence 678

GCTCCCGCGGTGGCGGCCGAGGTAAGTGTGGCATGACGTCGATGATCGAGTTCANGGCT  
NTCTCCANCTNNGNCNACATGATGCCACGGNCTNNGCCCCACCAGGTCTTNTGAAAGACA  
GNTGACANGAGACATCCNCGCGTACCTGNCCG

## Sequence 679

NCCGCGGTGGCGGCCGCCCGGGCAGGTAAGTGTGTGATCGGAACGTGTGATCCCCCT  
CTTCTCATCACTGCTGCTCCAAGTATTTACTCCGGGAATGGTCTGAGGGGGAAAA  
CCAATGTGTTTAGCGTGCCTGCCACCTGCGCCTGAGCACAATATCCTGCAATCTGACC  
TGCCCCCTCTGCACAGGAAACACCTTCCCCTCCCAATTGATGGTTCAAACACTGCCACC  
GCTGACTGCCCTGCATCTGTGGGTCTGTAGAACAGAAAGGCAGAACAACTTATTTTTAG  
GATTTAACGACAACCGGTTGAAAAAACCGGTAGGGGTGTCNTGCTCACAGAGATAAAG  
ATTTGTAGAAAAGGNGCTGAAGTCCAAGGAAGGCATTTCTTGTGCCGTGTCTGGAACCG  
TGTATCCTTACTACATCACTGAACGACACCAAAGCACCCCATGCATTTTTGGGTCCAAC  
CT

## Sequence 680

NATTGAGCTCCCGCGGTGGCGGCCGAGGTACAAGGGGAGGTAATGATGGGAGCTCCACT  
CCTTGGACCACAGCTGGTTCTGGACCGTATCCCCATGAATCTGTTTGAACGTAAGGAGG  
AAGTCAAAAAAGTTCTTATTTAGGGTTTCTTTGAGATGTGGGGCCACTTCCATTCCCA  
CC  
CGGCACAGGTAGGCACGGGCATACACCGACACTAGTGGGTCTCCGATCCCTCTGATCATG  
CATGTCAACCGGGCAGGCACTCTGAAATCCCGTTTTGGAGAGGAATTTGTTACATTC

Table 1

AGGATGGATGCCTCCACGTAAAATCTTGAATGAGTTCCTGATGGAGGCAATCTTGAAA  
AACCAATTTAGGCATGTTTCCTTGGCCGTGTCATTTGCATTCTCTGGAGAAAAGTGAT  
CT

GGTAAGACGCTGCGGCTATCCACACACATGGAAAAGATGC

Sequence 681

GCGGCCGAGGTACCCTAATGTAGTAGTAAATTTAAGGCCTGTCGAGGAAATTTTAACACT  
TCCAACAGGTGACTATATCAGGAAGGAGAAAACCAAGTGCTTCCTGCTTCACCTTCTGCT  
GCTTTTGGGACTTTTTATGAAGCCTAGGTAGNCTNAGGACANGACCCTGAACCCATTTTT  
TCACTGGGAGAGGAAAACCACCAGGCTTCTCAGCTATTGGCTTGGCAACTCTTGGAGTTC  
CTATGGCTTCCATCAGGGGCTCCAGGCCCTGATAAGTGCCCTCAGGCCAGGNAGGGAGGA  
TTCGGNGTAGCCGGGATTGGGGAGCAGCTAGGTNCAGGGAAGGNTGGGAAAATAGGGGAC  
CCANTCCCCAAAACCACCGTTTGGCCGCNATGGATGGAATTTGGAGGGGAAC TGGGACC  
GNTAAGTTTCTGGCATTGCCTGGCCGGNTTGGGATGCCTTCTTCGGGACTGGCTCCCAGG  
GCCGAATNTTTTTCAGGGTCTTGAAGCCCGCT

Sequence 682

TTGACTCNCCGCGGTGGCGGCCGAGGTACTCTCGTTTCAGCTGGGCTCTTATGGCCAACC  
GCTCGGCTTGCGCCCGCCGGTTTCCGGAGATATGTTGTATTTCGGCTGGGTGAGGGTCT  
CAGGCAGAGTGCGCAGGCTCGACGGCTTATACTTTGGGAACGACATCTTGGCGAACCAGG  
GCACAATTGCGCTGCGCATCTGAGGCCCTTTGTCTCCCCGCGTACCTGCCCG

Sequence 683

GCGGTGGCGGCCCGCCCGGGCCGTACGCGGGATGGCACATGCAGCGCAAGTAGGGTCTAC  
AAGGACGCTACTTCCCCTATCATAGAAGAGCTTATCACCTTTCATGATCACNGCCCTCAT  
AATCATTTTCTTATCTGCTTCTAGTCCTGTATGCCCTTTTCCTAACACTCACAACAA

A

ACTAACTAATACTAACATCTCAGACGCTCAGGAAATAGAAACCCGTNTGGACTATCCTGG  
CCGGCCTTATCCTAGGCCCTAATGGGCCTCCATCCTTACNNATTTTTTAAANAANANAAA  
NGGGGGAANGGACCCNTCTNTTANAAAAAATAATNGGGCCCNAAANGGTTTTNGCCCCC  
NGNGGGCCCTNNGGCNTTTTTAAAAAANNNGGGGANCCCCCGGGGNGGGGGGGANTNTTT  
TTAAAGNTTTTTTCCCCCCCCCCCCCGGGGGGGGGGGNCCCCCCCCNTTTTTT

Sequence 684

CCGCGGTGGCGGCCGAGGTACCCCATGCAATATANTGGCTCTACAATCCTCAGCATGTTA  
ATCGAAGCCTTGTTGAGCTTCACAAAGGTTCCATTGAAGATTTGACNGAAGGCGAAGAAG  
CTGCAACACCTTTGAAACCTTTGGGCTCACTCCATTGATACCTCTGATTCTGATGACAAA  
CGCCAATTTGGGTTCTGCAGGTACGAGGACATTTTCCCCGCGGCTTGTTGGGGTCTCCT  
TTACCCATGTTGACAGATCCGCGTCCACCCGAGGGTATTGGAGGGTATTCTTGCTGGTG  
CGAGCTTTTCTCAGAGTCCCGCAGAGCGGCCGCTCTAGAACTAG

Sequence 685

CGGTGGCGGCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTGGAGATGGAGGTTTCC

G

NTCTTGTTGCCAGGCTGGAGTGCAATAGAGCGATCCCAGNTCACTACAACCTNCGCCTN  
CCAGGTTCAAGCAATTNTNCTGCCTCAGCTTCTGAGTAGCTGGGATTACAGGCATAAGC  
AACCATGCCCAGCTAATTTTGTATTTAGNANGAGATGGGGGTTTTTCNATTNTNGGNAA  
GGNGGGTTTTGAACNCCCCCENNNGGGGNCNCCCCCCTGGGCTCAAAAAAANGGGGN  
GGTTAANTANGNGGGGGGGNGGNCNATATTCCNCCCCCTGTATAAAAAAANANCNC  
CCCCNCCCGNGGTGTGGATATANATATTTNTACATTNTATNTTTTNTCCNCCCCC

NC

GGG

Sequence 686

CCGCGGTGGCGGCCCGCCCGGGCAGGACTTTTTTTTTTTTTTTTTTTTTTGGTTTTT

T



Sequence 659  
TCCGCGGGTGGCGGCCGCCGGGCGNGGTACCTCAGGGACATTTAAGAGTTGGACGGTGCA  
AATATATTCAAAAGGGTGCAACATGACACAGTGTATCCCCCTGCTTCTGTTTTGTAT  
A  
TTTTTGCTACT

Sequence 554  
GGTCTCTGTTGGGGCTCCCCTTTCCTGAACTTTGGCCAAAGACAACAGGATATTCTTGGG  
GGTTTTGTTGTTGTTTTGTTGGCATNNTTCTGTGCCTGTTGGTGATTCCAGCACAGN  
CC  
AGNGANCCGNGTACCTGCCC

GTGACTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGTATAATGGAGGCTGACCAGAGC  
AGTTTAGGAGATTGTAAAGGGAGGTTTTGTGAAGTTCTAAAAGTTCTAGTTTGAAGGTC  
GGCCTTGTAGATTAAACGAAGGTTACCTAAATAGAATCTAAGTGGCATTATAAACAGTA  
AAGTTGTAGAGAATAGTTTGAAAAAAAAAAAAAAAAAAAAAAAAAAGTACCT

Sequence 030  
NCCGCGGTGGCGGGCGGCCGAGGTACAGCAGGGTGCCTCATGCAAGAGAGGACTGAGTGG  
ATTTTCCTTAGGGATATTTATGAACCTTAAAGCAGGAGCTTAAAGGGAATTTGGGCCATA  
TTAACCACTTAGGTCATGATAAATGATTACATTTTTGGACATTTTGGTGTCTTAATGTC  
A

ACTTACAAGTTTTTGGGGAAGAAGCCTGGACCCAGATGCCAGCTTTAAATAACAGGGGAG  
TCTAATTACTTCTAAATTCCTCACATAAGGAGTTTTTGCCTCTGGATGGCCTGCTTGAT  
G

TGGGCNNTNAAAAAATTGNGGGGCCGGGGGAAANGGGGAAACCANTTTTGGGCCCCCCNT  
NNNGAAATTANAACCCCTTTTTTTTNGNGGGGAAAAATTTNCCCCCCCCCCCCCGGGGGGC  
CCCTNTTTTTTNGGGGGGGNANAAANCCCCCCCCTCGGGGGGGGAAAAAAAAA

CGCGGTGGCGGCCGCGCCCGGNCAGGACGCGGNGANGACAGCGNCAGGCGCTTGATTCCCT  
GAGTCCCGGTGCCCTCANCTGCCAGNGCCACGTTCTGAAGAAGGCAACAAGNTCTTCTC  
TGCTACAGAAGGATTTTGCAAACANTTCGGCAAGNTCCAAATGATTCTGATCGCAAATAC  
CTGGAAGATTGGGCAAGAGAAGAATTCAGAAGAAACAAANGTGCCACCGAAGAGGATACA  
ATCCGGATGATGATTACTCAAGGCAATATGCAGCTCAAGGAGTTAGAAAAAACACTTGCT  
TTAGCAAAATCTTAACATAGCATTATTCTGAAGGGA

Sequence 050  
 ANCTCACCGCGGTGGCGGCCGAGGTACGCAGNCCNCTGTAGGGATCNGTNTTGTTCNT  
 GACNAGCCCTACGGTAATGCAGCCCCGAGCTTGTTTTCCGTAGCTGGGACAATCTTCTG  
 TCCTTGCTGTTTCATGTCGTGGAAGAGAGGGGCAGAGTCTTGCTCTGTCACCCAGGATGGA  
 GTGCAGCGGCGTGATCTCAGCTCATTGCAACCTCCACCTCCTGGGTGCAAGCGATTCTCC  
 TGCCTCAGCTTCCCAAGTAGCTGGGATTACAGGCGTGCACCACTACATCCAGAGACTGGG  
 ACTACAGGCATGGATTTTCAGGTTTATAACATGGCAGTGAATTCCTGGCAACACTGA  
 GTGATGCTTGNCAATTGGCCACTATCAGGAATTTAAACAAGATT

Sequence 699  
CGGNGGCCGCCGAGGTACTTTTTTTTTTTTTTTTTTTGTTAGTGTTTTCTGATGTCTTTT  
CTAACAAATCTTTGCCTGCCCAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTTAG  
CTTTAGCTTTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTTGGGGGGGCA  
GAGTCCATGTTGCCCAAACCTGGTCTGGAACCACCACACCCAGCTAATTTTTGTGAATTGC  
GGGTACCAGCACACCGCGCGCTCTGGACTGCGCCTTCTACGATCCAACGCATGCCTGG  
AGTGAGGAGCTAGATCATCAATTGAAATGCGATGATTTGAACACTGATCAAGAAATCTT  
GTTGGGACCCATGATGCCCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATG

Table 1

GTCACTGG

Sequence 700

CGGCCGACTTGATGAGCGGAGAGACCTGCACCGGTGGCACCATCTTGTCCCTGACCTCCG  
CACCGGAAGCCCCCGGTACCT

Sequence 701

ACCGCGGTGGCGGCCGAGGTACGCGGGGAGAGAGGAAAAGAACACAGATCTCGCATGGT  
TCAGATTTTTCTTTTAGGTCCAGGAGTAAGATATATCATACGAAAATGAAAATTATAAT  
NCTTCTTGGATTCTCTGGGAGCCACATTGTGAGCCCCACTTATCCCACAGCGTCTCATGTC  
TGCAGCAATAGCAATGAGTTACTTCTTAATCTTAATGGTCAACTTTTGCCACTACAA  
CTTCAGGGCCCCACTTAATTCATGGATTCCACCTTTCTCTGGAATTTTACAACAGCAGCAG  
CAGGCTCAAATTCAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCTGGA  
CTGCTCCCAAATCAAGATACCCTTAACAGGAGAGGCCAGTTTGGCCAAGGAGCCAGGC  
AGGCCAAGGTTGATCCCTTACAGCTTCAAACACCGGCTTNAACACAACCCAGGCCCCAGT  
CACGGGGATGCCCTATGTATTCTCCTTCAAATGCCTTAAGAGCAAGGGCCAGATGGTTT  
CAATACCTATNCAGGTTTACATGGGC  
CCGCGGTGGCGGCCGCCGCGGCTACTGCAAGCAACAGTTACTGCGACGTGAGATCAT  
CAAGAACACGTAGAGAAACCCAGCTGTAATCATGCATGGAGATACACCTACATTGCATGA  
ATATATGTTAGATTTGCAACCAGAGACAAGTATCTCTACTGTTATGAGCAATTAATGA  
CAGCTCANAGGAGGAGGATGAAATAGATGGTCCAGCTGGACAAGCAGAACCAGGACAGAGC  
CCATTACAATATTGTAACCTTTTGTGCAAGTGTGACTCTACGCTTCGGTTGTGCGTACC  
T

Sequence 702

GCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTATGAATTATTTATTTCTTT  
CTCANAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTTCTGCATCTGCC  
CACAGACGGGTGGTTCTAGACGGCCGCTCTAGAACTNGTGGGATC

Sequence 703

GGTGGCGGCCGCCGCGGCGAGGTACAAGACCTTGACACGCCCAAAACACTTCTGCAGATG  
TTGNCGTGGAAAAGTGTCTGTCTTACAGAAAGCCAGTTGCAAGGACCTTGCTGCTGTCTTG  
GTTGTGAGCAAGAAGCTGACACACCTGTGCTTGGCCAAAGAACCCATTTGGGGATACANG  
GGGTGAAGTTTCTGTGTGAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGTGT  
TACAGCAATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAGAAG  
CCTGCAGCCTCACAACCTGGACTTGAGTATCAACCAGATAGCTCGTGGGATTGGTGGGA  
TTCTCTGTGAGGCATTAAGAAGAATCCAACTGTAACCTAAACACCTACGGTNTGAAGA  
CCTATGAACTAATTTGGGAAATCAAGAAGCTGTTGGAGGGAAAGTGA

Sequence 704

CGCGGTGGCGGTCTGCCAGATCCATGATGTGCAGTTCTCTGGAGCAGGCGCTGGCTGTG  
CTGGTCACTACCTTCCACAAGTACACGGGTCTATTTGGCNGTGACCTTGCTCTGGAGACN  
ANGATATCCCTTCAGCCTGAGGGAATTGATGTTGATGAACCCGGAGGCATCAGTTGGCTC  
ATAATCACCTGCACGTTTATGCTCACCAGCTCCTNATTGTNNAGAGACAGNCNGGGACT  
CCCGGCCGAGGATGTACCT

Sequence 705

CCGCGGTGGCGGCCGAGGTCCGACGCAGCAGGCTCCGAAGATCATACAGACGCCATTACC  
ACTCTTGGCTCCCAGAAACCTCTGCGCCCCGCGTACCTGCCCG

Sequence 706

CCCTTAGCGTGGTTCGCGGCCGAGGTACGAGTAAATTTTATTACCTTTAATTAGGCAATG  
TTTCTTAGATAACCATAAACTGCAAAAGCAATTTTTAAAAATGTAAATAGGACTTCATC  
NAAAAGTAAACGCTTCAAAGATACTACTGAGAAAGTCACAGAATAGGAGAAAAATCTGA  
TGAGACTTTATGTCTAGAGTAATGAATCTTGTAAACGAATAACCAACCCCTTTAAAA  
ATGGGCAAAAGATTTGAATAAACATTTCACTACAGACAATAAACAAATGGCCTTAAGCAC  
AAGAGATGCTCAACATCAGTAATTATTAGGGAAATGCCAATCAAACTACAACGAGATAC  
CCTATATCCACTAGTATGGCTATAATAAAAAAGAGTAACAAACCGTTGAGGAGGATATGG  
AGAACTCGAGCCCTGGTCAGGTGTGGTGGATCACACCTGTAATTTCAACACTTTGGGA

Sequence 707

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCATATCCAAGGCTTATTGCAACTTTTAGTCTT  
GCCCTGCTACTTACACAGTCCAGAATCACTTGGGTGAGCATTCCAGTAGGACGGTGGCA  
TTTTAGGATTAGAATATTAACCTATAAACCTGTCAATTTGATTCTTGATTATTAATGTCT

Table 1

GGATCGCCTGTGGTAGGGGTGTAATCCCAGGAAGGCATTAAATATATTTGAATTAATGTA  
TATTTTGAGAATAAAAGGCTATTTCTAGAAAATATTACACACTTGTCTTATGTTAAATAA  
AAATTTGCTATTTATTGAATATCCCTTACCCACCCCTCTTCCCAATGAAGATCTTATGCA  
TACCTTCACTGGAAGGTTTAAGATGTGACAATCTTAATAGATCTTTGTGAGACCAGCCAT  
TTCTCTGTTTATATTTTGNACCGCCANAGCAAGGGCCATGCCACCTTTCTCATTGGACC  
T

## Sequence 708

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATCCTTTTGCATGCTCAAGAGCCCATTCTTT  
TCATCATTTCGGAAGCAACAGCGGCAGTCCCCTGCCCAAGTTATCCCACTAGCTGATTGCT  
ATATCATTGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTAGAG  
TGGTAAGTGCTTTCACATTCTTTAAGCACTAAAGAAAACCTTTTAATTAGCTACCTTGCTT  
CCAGTAATCAAACCTAGAGCTCCTCTGCCTTGTGTAAAGTTGCTATAAAGTATTGACTATTA  
GAATGTCTTGAACCTTTGGTTACTGNGAGCCAAAGTCGGTGCTCAAAGTATATTTTCATAGT  
CTCAATTATAGTAATTTANGTTCTGAAAAATAGGTTCTGGCTTTGTCATATGTAATATT  
TTGTGAGTATTTACTTTTGAAAGTTTGGTCGACCTAATGGATAAATTTAGAAGTTATTT  
TCCTT

## Sequence 709

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGCATGGTCCATACCACTGTTTACTTTTCTAG  
AAAGTTGTTAGACTAATTTTTCAACAAAAATCTTTATTGTCTTGGTAACAAAAGAAGCA  
TACTAAAAATTTCTAATAAGGCACAGTGCTNTAGAAGCTTGAGCATTCAACATAAACTT  
CTAATTAACACGAACTTGTGCTCTTATTTTACGCCATTGCTGTGTGGGCTTGGAGCCAGGA  
GAAGATGCAGAGGAATTTTACAATGAATTACTTCCATCAGCTGCAGAAAATTTTCTAGTT  
TTGGGGAGACAATTACAAACATNGTTTTA

## Sequence 710

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTAATCCCAGTTATGAGGGCTCTGCC  
CATGACCTCATCACTTCCCAGAGGCCTTACCATCTAATACCAATACATTGGGTTTAGAAT  
TTCAGCATGAGAATTTGGGGGAGACAGTCAGACTGTAGCGATGATTCTGGAGTATTCATC  
ATTTAAGAGACACTTAAAAATGATCAGAAAGGAGAGGATGAAGGCTAGAACTAAGACTTT  
AGCGTTGAACATGGAAGGAAGTGATGACTGCAGATATCTCCAGTACCTCGGCCGCGACC  
ACGCTAAGGGCGAATTCAGCA

## Sequence 711

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAT  
AGCCATATACCAAATAAATGTTCTGTGACTAGGGGTTATGGCACAATGGGTATTGAGACA  
CTAAAAACTCTGCTTCAGGCTTCCATCCTCTTAATTTTANAATATCTCTGATTTCTTAAT  
TTTCTGATTGACATCTTTTGGTAGATTATCGGGTTTTTACTTTATGTTATTGACTGATCC  
TTTAGAATGATTTTCTTTTGTCTGGGAAAAAAATGCATTCTAATCANATTCACTAA  
TACTTTGATTCATTCCAAGGAT

## Sequence 712

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACAAAAATTTTAAACATTAGGAGGTAATTAT  
AAGTAGATTCTGTGATTAGGACTTCATTATCATGTATCTTTTGCTACATAAACCTTTGTTAG  
ATTAAATGGAAGACACCTGCTAGGTGATACTTTTATAAAACATATGAGTAAGTCATATA  
TCTTTGTTAAATTTCTGTATGTTCTTTTTTGTATAAAGATGGAGAGAAAGGATGGAGTGA  
TACTAAGGACCCTAATAACATCTCTGTTCAAATTAATTACTAAGTGATAGAAGTATTCAT  
ATGCCATTAAAGATTTGCCAATTCATTT

## Sequence 713

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGACACAAGGACTCCAGGCCACACATATCT  
TCTTGAAAGCCCTTTTCTGTTTGAAAAAAAGATCGTTTGTATTTGATAGAGCAAAAGAA  
GGCCACAAAATGAATTGCTTCTTGTGGGCTGTGTTTCAGAACGGCCGGTTTGTGGGCGA  
TGCTGACCTTGAAAGACAGAAATTTTCAAGTTTGAAACTCAACGGACCCCAGGTAATTC  
TTGGCTCAAGACCTGGGTTGCTTCATTATATTTTCTATTTCCCCAGCCTATAAGAGCA  
TATTTGTGCTTGTAAAGGTGCCTGG

## Sequence 714

CCGGGCAGGTACATATGCACTATTTAGAATATGACATTAATCAACCACTAGAATTTAAAT  
CAGGTTATAAATCCTCAAAATCACCAGAAGTATAAATTTAAATGAAAAACCCAGACCACA  
GAACAAAAACAGAAATACCAAAAAATAATCACAAAATATTTAAAAACAGTATATAAACACA  
GTGACAGAATTAGGACTAAACATATCTGTAAAAACAATAAATGTAAGGGTAATCTCACCA



Table 1

TTATGAAAAAGACCTTCAGATCATATTTTAAAACAAATTTAAAACTCAACTGTATGTTT  
ATGCAAGAGACAGATTTAAAAATAAGAGACTCAGAAAGCTGGAAATAAAAGAAAGTGC  
AAAGAAATAGCAAACAAATACAGGCATAAAAAAAACAAAGATCCCAATAGTACCTCGGC  
CGCGACCACGCTAAGGG

Sequence 715

CCCTTAGCGTGGTTCGCGGCCGAGGTACGTGTGCTGGATATGCAGGCTTGTTACATAGAAT  
TGGTGTAATAATTTGAAAACCATGAAAAATAAAACAATAAAGGATCTAGATGCTAATAAT  
GTGGTTAGTTAACATGTTGACCATTTCAAAGCAAAATAAGTCTTTGATGTTTTATACTAT  
TCATAGCAAGATATAAGTATTTAATCTGCAAAGACGTGGATTTGAAAATTCAGCTGCCAA  
ATGTAAAGAACAGATTCCTAGATTATTATTAATAATATCTCTATAAATATTATTTTATC  
ATAATGGGTACCTGCCCGAGCGGCCGCTCGAAAGGGCN

Sequence 716

CCCTTTTCGAGCGGCCGCGCCGGGCAGGACAGTGGTGTGATCTTGGCTCATTGCAACCTCCA  
CCTCCTGGATTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCAC  
CTGCCACCATGCCCCGTGAATTTTTGTAT; ITTAGTAGAGACAGGGTTTCACCGTGTGG  
CCAGGCTGGTCTTGAACCTCCTGACCTCAAGTGATCTGCCTACCTCGGCCTCCTAAAGTG  
TGGGATTATGGGCGTGAGCCACCATGCCACCTCCTGGGTCATTCTTCTGGATATTACCA  
GGCCATTTTTATGCTGATCTAAGTGAAAACTGGATATTTTTTTCTCCAAAGTTATTTCT  
TAGTTCTACCTATGACATGAGGGTGATCTTTATAATTTTTTTTGTCTTCACTGAAGAAA  
TAAACATTGCTTAANGGGAGAGTTTGGGGGAAGTGCATANGGGATCTGCAGTTGGGACT  
GGATTTTTCGGGT

Sequence 717

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAATCTAAATGCTAGACAGTTCAAGTGTAGCTT  
TGGAGACTTACAGATAGCCAGCTAGAGAATACCAATGATGATATCCATCACGAGGAGTT  
TGGTGGCCAGCCTCCAAGATGGTCTCAATGATCTTTCATCTTCATATTTCCACCCTGT  
GTAGTCCCCTCTCTCAGGGGATTAGGGTTGGTCTGTATGATCACCACATGGCTGCAGTAA  
TGGTATGTCACCTCTGAACTTAGGTTATAAAGACTATGACTCTCATCTTGGGTGTCCAC  
TCTCTGTCTCTGATCTTACACTCTAGTGGAAGCTGCCATATTGTGAACCTCATGGAAG  
GCCACAGGGTGAAAACTGAAGCATCTAATCAACAGTTAGCAAGAACTGAGCCTGNCA  
ACAACCATGTGAGTGACCCCGGNAAGATTTTCCAGTCCCAGTCAAACACTTGANATAACC  
GGCAACCCCTTAAGCTGACAGCTTAAGTGCNANCTGATAAAGACACCCTTGGGNCAAAAC  
CATNNGGAACCATTCATACCCCA

Sequence 718

GATATCTGCAGAAATTCGCCCTTAGCGTGGTTCGNTTTTCGAGGTNTTNGGGGCGGGATAAA  
CATGGCGACGTCTCTGCATGAGGGACCCACGAACAGCTGGATCTGCTCATCCGGGCGCGT  
GGAAGCATCAAGTTCACAGCAGTAATGCACACTGTGGCAGGAGAATCGCTTGAACACGAC  
AGGCGGAGGTTGCAGTGTGACGAGATTGCACCATTCAGTCTGGGCGACAAGAGG  
GAAACTCCATCTGAAAAAAGGAGAAATTCCTTTATTTTCTACTTCTCTTCAGATTTGTC  
TTATGCATTTTCCAACATGTATGCATCACAAGCTATTCTTTTCTGAGTTATAGCTACA  
GTTTTCTACTGTTGTCTNATGCCATTTTCATTTACATGGTACCTTG

Sequence 719

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTNNNTTTTNTNNNTTTNTNTNNNGGAGAC  
AGGGTCTCGCTCTATCACCTAGACTGGAGTGCAGTGGTGCAATCTCGGNTACTGCAACCT  
TCACACCCCAGGCTCAAGTGTCAATCCTCCGCTGAGTAGCTGGACCACACGTGCGCAC  
CACTAAACCCAGCTGTTTAATACACCATTTTTAACCCAAAACATTAAGAAAAATATAGGA  
ACAGTAAGTAGATTACATTTTGTAAACAGACAAAGCTTACAAAGTTTTCTCAAATATGAA  
AGTCATACTAACTGGGAGACTGTTAACTTCTTGATGGGGTTAATCTCTAATATGAAGCC  
NCAGTCATAGCTAACTACAAATTACATATACAATGCCAAAAATNTTAAAAATAACATTT  
TTTGCCCTTAATGGATTACAAATGCTAACCNACATAAAGACCCTGGGAAAGGGTTCANAA  
TCTNCTCATTACATACTTTCAAATATCTTNCCCTTTACTTTTCATGAAATGGACCCCGGAA  
TCTATGTAAGTGATGACNTGNCCGNGTTCCAGGNGTTNTTAACTNAACTTGAANAAA  
GGCCCTAACTTAAATGGGTTTTTGAANCCTTTTCCAAATNNGGNTTTGGTTTGGAC  
CCNNTTNAANCTTTTTANCAATTNTTTNTTTTAAACCCCTTGGGGGGGGGGGGCCCCC  
AAAANAAAAANGGGCCCTTGGGTAACCCCTTTTTGGG

Sequence 720

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGAAGAACATGGTAAAAATATGTTACAAATAA

Table 1

TATTTTATCTTAGAAATGTATTCAGTAAAAAATCTCTTTATTCAACTATCCTCTTGATTC  
AGGGGAAAAAAGGATTAGCATGGGAGATAACAGAATAGGAAGTTTAGGAGATAATGAGAC  
TTCTGTTTTAGTAAAGTAAATAAGCTTTAATAGTTTTTGGTCATGTATTCAGTTTACCA  
GCCTTGAAGATATTTGTAGGAAATTTTAAAAGTTTCTCTATTTTCATCCCCCATGATAAAA  
ATTATATAGAATAAAAAGCTGAATTGAACTTTTCTTACAGCACACTGAAAAATATCTTCTA  
TAGCATTAATCAGATCACAGAATGCATATTTAAACCAAAATTTGACTAAATATTTTTTA  
ATTATTTAATTTTTTCTGANACCGGAGTCTGGCTCTTGTCCNCCAAGCTGGANTGCAAT  
GGCNGGAACNACTTATTGGAAACCTCCGCCCTCTGGGTCAAGCCAATTTCTCCNCTTG  
GNCCTCTAAAGTGCCCTGGGATGGCAGGCCTGTGCCANCTTCTGGCCCCANAGNNCCGG  
GTTTTGGATGGTTGGGTNGGTTNGGGGGGTTTTTTTTTCCCTAAAAACCTTNAATTTCC  
CCTTTTGGTTTTTTTCCAAAAAATAACCCCTTTTTTTTTTACCCCCCCTT  
TTTT

## Sequence 721

GCAGTGTGATGGATTCTCANAATTCCCTTGACGGCCGCCGGGCTGGTACGCGGGGTAA  
CTATGTTTTCTTTAACAGAAAGTTCTGTTTTGTGATCCTTTTAAAAATAAGCTTCACG  
GAAGGTATGAGAATAGTATTTTTCAACTTTTAAATTTCTCATTACCAGAAAGCATGTGGT  
AATTCTCTGTATACAGTTAGAACAGCACGGAACTTGAAGGCCTAAAAAATTAGCTGACC  
TTGTTAAAAATGTTGGCGTGAGCAGTATATTATACCTATCTTTTTTATTGTGTGTGTG  
TGTGTGTGTGTTTTAACTAATTGGCTGAAATATCTGCCTGTTTCCCTCTTTACATTTTT  
CTTGGTTCTTTCTTATTTATCTTTGTCCATCTTGGAGATCTACTGTAAAAGTGAATTTT  
TTAATGGAAAACAGTTCCCAAGTTTACTCTCAGTGGGTTTNGGGACATCAGATGTAA  
TTGAGAGGCCAACCAAGGTAAGTCTTCATGTCAGTNGTTTGGTTGAAGGAAACGAGCCTA  
TGAGGGTCAGTTTTTCCCCAAAANGGAA

## Sequence 722

NGCCCTTAGCGTNNTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTCATGCTTCC  
CAGTTTGGCAGATGTGAGCAAACTATGTATAGGAATTCAAAGGTAACTTTTCTTTTCA  
TTACTTTACAGAAATAGTCAAGTCCAATAGAGAGCACAGACTTGGGAGGCCGATTGGG  
TGGGTTTTGAATCTCTGCTCTGCCACTTTTATTAATCATGTGAGTTGAGTATGTGACTTAA  
TCTCTTTTAGCTCAATTTCCCATCTGTAAAATAGGAATAATAAAAAACTGACTTCAGA  
GAGGTTTGTGAGGATCAATTAGACAGTCATGTTAAGTCTGTAAATGTTTTCTGTAATGGG  
CAAGATAGCAAAATATTTTAGATTTTGTGGACCATGCAGTCTTTATCATAACTGCTTAACT  
GCCATTATAGTGAGAAAGCAGCCACAGACAATATGTAATGAAAAAGTGTGCTCTGTTT  
CAATAAAACTTTTATTTTCAAAAACCAAGCTGGCTTGNACATCTGGCCTATGGGCCATAA  
GTTGGCCCATCTCTAATGTAAGAAAGGACTTTANCCCAAAGCCACAACCTGCATAGTAA  
TGCCCTAAAAAATGGTAACATCTTTACTGGTATTAATAATTACTACTGCATCTATTACC  
AGNAGCCAATTGGAGTAATGAATCCATGAATGGTATAATGGTAAATACTAACCCTTT

## Sequence 723

GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGTAATTACTTTGTTGCTCT  
TTTTCTAAGTTTTTAAAGATGGATGCCAATCTCAGGCTTCTTTTCGTGTGTGTATGTGCGT  
ATGTCCATAAATCTCTTCTAATTACAGTGAAGCCACATCCCACAAGTTTTGATAGTCA  
CAGAACTGTATCGTCACACTATTTTTTAAATTTTCAAGTCTTCACTGATCCCTGTGTA  
ATTTAGAAATGTTTCATAATTTCCCTACATTGGAGGGGAAGATAGTTTTGNTTTTATTAT  
TAATTTCTAGCTGTANTTGAGCTCTTGTGAGAAAATATGGTTTATTTTAAAGT

## Sequence 724

CCCTTTTNAAGCGGCCGTTNNGGCAGGTACTCCTCAGCTTGTGCTGCCCTTCTCGAATGAC  
TCGCGTTTTCTGCTTTCATCACTACACCTCCCACCGCTCTCCATCACCTGCTCTGCTCTT  
ATAAGGATCCAGAGAAATGGAATAATCTTATTGCTGATCTATGTAACCAAGTTGAAGAAT  
CGTCTGAAAGAAAATACAGTGTGTCTAACTGGAAAAGTCTGTAATAGTTTGTTCATGA  
GCATTTGCACAGTGGAGTTACTGTTTCATCATGGGGGTAC

## Sequence 725

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAATCTTAAATATTAACACTGGTCAACT  
AAAATGCACAAATTCATGAATTTGATTTGCACTCAAACAAAAAATAACCATAGGCAGT  
ATCATTTCTACCTTTGTAAGAGGCAGGAATATTCATTAGACTCTATGCTTGACTTTTCAT  
ATGATTTTAACTGTAGTAGGCTATCGGGTCTAGTTTAAAGCTTCATTTCTAACTACT  
CAACAGCTCAGAACTGACAAAGATCACAAGAAATCAACTATTAACCTCTTGGCCTGAAGAC  
ACAAATGAAATATTCCTATTTTACAAAGCAAATTAGATTCCAAGATTTTCAAAGCCAT

Table 1

ACTCCTGCAGTTCACCTGGGTTTCAAACCTAAAAATCAT

Sequence 726

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCACTTAAATAAATAATTGGTAAGATGATT  
TTATCTGACAATTAAGGTATATGTGAAAAACCTTAAAAAAATCTATTTTCATTAC  
ATGTTGAAATGTTCTGTGCTTAATCCAATACATCATTTAAATCTTTTCACATTTGGACA  
ACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTATCTAAATTGCAAATC  
AAAAAC

Sequence 727

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATTCTATTGTTATC  
TCTATTTTTTGGATGAAAAACAGCAGCACAAAGAAGTTTCAGTAAGTGGCCTAAGGCCAC  
ACAGCTTGTCTTCTGAAGACTGGACCCAAACCCAGGCAGTCATAGAACATGCTGGTCGC  
TATTGGGCGCTTGTCTATGGGGGACGGTGCTCCAGGAACACAGCAATGCGGTTTAGGA  
TTCCAGGACCTGGGGCAGCTGCTGCTTCTTTCTTAGTTCTCGACAGACCACTGAGTGCAG  
TTTTCTAAATCTTTTCCCACTTTGATATGTGGTCCATAAACTGCTTCCACACGTATA  
ACCCACTGTGAAGTTTAAATGATTTTCATGTTTGGGCAAATTCCTACTGAATGTTAAGCT  
AGATAGGAAACAAGTTCTGACTAACACAAAATGAAGGGCTGAATGAAGAAGTCNTACTTT  
TATAAGGAATTTTNCCTTCTCACCAAATC

Sequence 728

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGTAGAG  
ACGGGACCTCACTGTGTGCCCAGACTGGTCACAACTTTTGGGCTCAAGCAATACTCCT  
GCCTTGGCCTCCCAAACCTGCTGGGATTACAGGGATAAGCCACTGTATAGAGTATGAAAAG  
TATTTAAAGAATCTTCCAAAGGAGGACAGCAGAAATGAAAATAAGTAAGTTCAAACCTA  
GAATCCTTGACACAACCTGGTTTTATCCCAATGCCTCTTAAAAAGAATCGTTCCATGGGT  
GGCAGGAGGGGTGTTTTTCATGGTGTGATGCACCGTGACTTGTATTNAAGATGTAAGTCC  
AGTGGTCCATCTATCACGTTTTATACCTTTCGAAAAA

Sequence 729

TCTNGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTT  
CGANCGGCCCGCCCGGGCAGGTACTTATCAGGATGAAATCAGAATCACAGTTGGCCTTTTG  
CCATAAGGGAAGGGTATTTGGAGAAGAGTCAACCACCACTCATGCCTCTCCCCTGCCAG  
CAGCACCTTGGATTTTCTGGCTTTATGCCCTCCTGTTTTCCCTGGCTGAGTAAGTGCAGG  
CATTAGGTTCTCTACACAGCATATATTACAGGGAAATGGCAGCGATGGTCTGGAAGGGC  
AACACTGGCCTTCTTCTCCTGAGCACTAAAATCCTAAACATGCAACTTAAAAAAAT  
TCTAAATGTGAACACCACCTTTCAGT

Sequence 730

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCACTTAAATAAAT  
AATTGGTAAGATGATTTTATCTGACAATTAAGGTATATGTGAAAAACCTTAAAAA  
AAATCTATTTTATTACATGTTGAAATGTTCTGTGCTTAATCCAATACATCATTTAAATTC  
TTTTCACATTTGGACAACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTT  
ATCTAAATTGCAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAGTTCTCCTG  
GCTG

Sequence 731

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTCTGAAGAATACATCTTCGTTCAATGTGG  
TCGTATTCTTAATTTTTCTATAATATTGCTTGAATCTTAGAGTTATGGTTTCATTTT  
TTGACTATTAAATTTGAAATTGTTGACATCAGCAGTTGACTCTTCTGTGTAGATCATAAT  
TTTTTAATTAAGAAGACACTCTCAAGTGTGAACATAATTGTAGAGTAAATCTAAGTG  
GAGGATATCGTAAATCTTTTTGTCTTGGTATTGACATGTAAATGTTAACATATGTGAA  
TAATTCAGTCCCCGATTGTCACAGGTTCTATGCTTTTACCTCCTTTCAAATACTTTCTT  
TAACAAATACTTTGACAAATTTATTAACCATTTATAAGACAAGACTTACCAAGGTGGTGT  
TCGTTTATGAATCTTAAATGTTTTCCAATACTTAAGATACATCAAATATAGGACTTC  
TCAATCCATCCTATTGTTACCAGAATATNAAA

Sequence 732

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTCTTTCTTTTTTTTTTTTTTTTGGAGATG  
GAGTCTCGCTGTGTTGCCCAGGCCGAGTGCAAGTGGCACAATCTCGGTCACTGCAAACTC  
GGCCTCCTGGGTTTCATGCCATTCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGTGCC  
CGCCACCAAGCCCAGCTAATTTTTCTTTTTTTGATTTTTAGTANATACGGGGTTTC  
ACCATGTTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCTGCCTGCCTCGGCCCTNC

Table 1

CAAAGTGCTGGGATTACAGGCGTGAGCCACCACACCCAGCCTATTCCCTTTACTTTCTTAA  
ACTTTCTTTCACTTTACTCTATGGACTCACCTGAATTCCTTCTGCTCAAGATCCAAGA  
ACCCCTCTTTGAGGTCTTGGATCGGGACCCCTTTNCTGTNACACNAACTGTATCCCCCTT  
GGCAGACATATGAATTTGCACCCCCGCTTGGGTCTTCAATNTCCAGGGGATGAAACAAGG  
GAGGNAAACCGAGGGGAAAA

Sequence 733

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAACCTATGTGAGAACGTATACTACTTCTCGGG  
CACAACCTACTATTTTAGATATTCATAAAATAACCTCTGATTGTGTTTCACATTGCCCA  
TTCAGTTCTGTCCCAATCTTATAATTCTGATTAAATGTTCTGGCCTCAAACCTAATTTTA  
AAAGGCCACTAACTCCAATCTAGGAACAAAACACTCTGTAAAGACTCTGTAACCTGTAT  
AAAACTAACTGAAAAATTCACCTACTCCAATAAACTATGATTTATGTAGCTCATAAGA  
GGGTGAATTTTGAATTTTACTCTATGAAAAAGCCTAAGCAATTCAATAAAACCTTGAT  
AACTGCACGTTTAAGTTTGCAGCATCTTGACCT

Sequence 734

NGCCCTTTCGNTTTNNCGCCCGGTCAGGTACTTTCTCTGAATTTTCATTAGCTACATTAA  
AAAAGAAAAGATCAAATGCAATAGATAGCACTGTAATAGATTTTGCTACATTAAAAAAA  
TCCATTTGAATACACAGTGAACATAAACACCCAGAGTGGCTAAAAAGTCCCTTCATGCATA  
TTTACTTAGCAGAGAGCTCTTGAGAAAGACCCCAACCAATAAACCCCAACCAAGCAAAATC  
CAGCTACTTCTCTAGCTGAGAGGGTGAATGACTCCAAAATATTGTTTCAAGCTCAAAAA  
GCCTAAAACAACTCCACATAAAAAACAAAAATCTATCTAATTGGACATTACCTTTTTG  
GAAATAAAAGGCCCAGTGGGAAAAAAAAAAAAAAAAAAAA

Sequence 735

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTNGNCACAGAC  
ACAGGCTGGGAATTTCCCAAATCTTACAAGTTCTCGTCCCTTTCCCTTAACAACCTCTT  
CGGAGTATCTCCGTCTTTACACTTTATTGTAAGCGAGGAGAGCAGCCAGGCTGCACCT  
TTAACATTTCAATTCACAGGATCTCAGCTCAGCCAAGTCTCAGCCATTTTGTAAATGAGGA  
TCACTTTCTTCCGGTTCCCGGTGACCTGTCCCTCGCTCCTCTAAGCCTCAGCAGAAAGG  
CCTTCAACATCCACTTTTCCACAACATTCTGTCTATGATACCTGCATTCTCTGAGATGCT  
AGAAGCTTTCTCTCAAGCTCTTCCCTTTCTCTNTCTGAGCCTTCACCCGAGTC

Sequence 736

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTTGTCTGCTTCAATAAAATTTGTCTTTGATT  
TCACTGGTGGAAGGGTGCTTGATCCAGCTTTTGCTTCTCCATGAGGAGGACTCTGTTTTT  
CAGTTTCCGCTTTTATTTCTCTGAGGGGAAAAAAGAACATACATTANAAAACCTGGA  
CAGCAGAAAGACTGAGTAATTTCTTAAGTTCTATAAACTCATTGGAACCTTACAAAAA  
GTTGGAAGAATGCAATTTAATAAAATTAGATGCTAAATTTGTTTCATCTAAATTTT  
TAATTTACACAAATAACATAAACTATATGAATAGGTACCTCGCCCCGCGACCACGCTAA  
GGG

Sequence 737

NATTTTTTTTTTTTTTTTTTNGTTTTGAAAACCTTTATTTCGGTTTCTCAGTAACAGT  
GATGCATTATAGAAATCTTGTCTGCTAAACTTCATAGCAAACCGATCCCAGTCCTCACC  
TNATTGTGTGGTAGCCCAGCAGCAGAGAAGATAGGAATTTCTGCCCCCTAGCAATACTG  
TTCATCCCATCAGATGGCCGAAATGCCAGTCTGAATCATTTCTCTGGGTAGATTGNACA  
TTGAGGGTTGATTGGCTGACCTAATGTNTTTTCCAAAAAGGAAATTTCAACAAGTTGCC  
CGCATTATTCTGAATGANAATTAGATNTCATATCAAATTAAGAAANGAAAAAGCACC  
AGANGACCAGAACTACATAAAGCATCTCTTTACTACAAAAA

Sequence 738

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATCTGCTCTGAATTAATTTAGAACAAAAAT  
CACCTGCCGTGCCACTACATGGACATAATCAACTGCTAAATTATGATTGTTTTCTTC  
CAGTTACTTTTCCAATTATTTTACATATACAAATATTTCTTGGTAGAAGAACAAAAGT  
GGCACTATTCATTGTGTAGTTTTTTGTAACCTATATTTTACCCTAAGCATTTTCTCGTT  
GTCTTAAATTATTAATNGAAAAATTATTCATGGCTAAATAATGCCTAGGCTGCCATGAGTC  
TTTTCTCCTTCTATAAACCGTGTCTAGCATTTCTTTATATATATCTTTCAGCACATCTGCA  
ATGATTTCTTTGGAATAAAATTTCTAAAGTTTCGCTGGATCGAAAGAATCAGGGATTTTA  
AGTGTCTTTCAATTTGGCAAAGTATTTTTTCAGAAACAAGCCCATTTTAAGTTCTGAAT  
AAACAAATTTCTTTTTATGGNGCATTTAAAAATCTACCTCCTTGAGCCATATGCNNGGGA  
AAAATGGAATTATTTGNCACCATGCTTTCAGATACTTGAAGAATTGGTCCTAATTNC

Table 1

TTCTTTATGACCTATTCTGNGTTCCTGGGACTNTACATTAATCTTTNCCCATGGATATTT  
ACCATTGGAAGGG

Sequence 739

CCCTTAGCGGCCGCCCGGGCAGGTACACAGTTTCCTTCTCGAAACAATCCAGAAGTAGG  
CTAGCAATGGTCACCCCTACATACTTCCGCACACATCTTCAAGAACAGGACACCATTAC  
CACACCCAAGAAAACCAGCATTTAATGAATTTATTACAGGAGTNTCATCCAACATACTCAA  
ATTTCCACAGCTGTTCCGAAAGTATCCTTCAATTCTGGATCCATTGATGGNTCACAGGTT  
GTATTTGGCTGTTACATCTTTTATGTTGTTATCCTTCAGAGTAAAACCTGGCCCTGCCCTC  
TTTCTTTCTTTACAATATTGACTCCTTTGAGGAACCGGGGCTGGATGTGGAGCATTCTCC  
ATTCATCTGATTGTTTCCATGTGACCAGATTCGGGGTCACAAAATTTNTGGCAAGAACCC  
TTCACAGATGACCATGTNTTGGTTATTAGGTAACAATAGATTCTCAAAGTAGAGAACTGG  
GAAATTGACCTTTGTCCATTACAAATAGAAATTTTTTTTGAATCTAGAAATTCCTCAN  
GAATNAATTGATTTCTTTCTNTTTCTTTTT

Sequence 740

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTGTCTGCATTTTGAGATTTTCCTATTAT  
CTTCTGGTGTGATTCTGTTAATTATACTGTGATCTACAAGCAGCACTGTATTATTT  
CCATTCTTTAAATTTGTTAAGGTGTGTTTATGCTCAGAATGTGGAGTGGACTATTTTG  
GTGAGTGTTCATATGGACTTAGAAGAAATGTGTTTTCTGCTGTTGTTAAATGAAGTAGTC  
TATGTATGTCAATTATTGTTGATGATTGATGGTGTGAAATCAGTTATGTCCTCACTGA  
TTTTCTGCCTGCTGGATATGTCCATTTCCAATAAAGGTGTGTTAATCTCTATCTATAATA  
GTGGATTTATCTATTTCTCCCTGCAGTTCTATCAGGTTTTGCCTCATGTAAGTTTTGGAT  
GTTCTGTTAAATGCATACACCATTAAAGGACTGTTAGGTATTCTTGGGGAATTGACCCCTT  
TGGTTTCTATGTAATGCTCTTCTTTATCATTGGATAACTTTCCCTTGCTATAAANGCCTG  
GTCTGNCTGGGAAAAAANACACAGGTNGNTACNTCTTCCCTT

Sequence 741

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCAGGTTAGAGATGACTTCAATATATGTGC  
CAGACCTCCCAAGGTGAGCATCACACAGCACTTATCATAATCCGAAGCAGCTCCACAGAG  
GCTAAGATGAAAACAAAATCTCAGGAAATTTATGTTTATAAAATGATACTTGCAAAAA  
AATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTGACTCACTGAATAAGATTTTAA  
ATTAGTCAATAGTATTGGATGCCTCTATATCTGCATATCAATAGGCTCATAAACAAGGT  
GCTCAAAGAACTGCCCATCAACCACTTGTTTCATCTTTGGACACCACACTGGTTATCTT  
NCTTTGGCCTCTGCCATAACGGGTCCAGGCTACGTGCACCAAAGGGAAAAAGAATTGGGGT  
NCTTCTCCCTNCCCTGGTTTGTTAGGA

Sequence 742

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTTTCCCTTGCCTCAACTTCTCATCTGGGT  
GATGAGACTGTTACTTTCCTTCTGTATAAAGAGGGCAACTTTCATGTAGAAATTTTACC  
TCCTACTTTTAAAGAAAAGGAAAATCAGAGTGCTTTAAAGGAAAATCAGAGTGCTTTTCT  
TGCATCTGCTATTTTCAAGTGCTTTAACTCAAAAAAATCAATATGCCAAAGTGGCATG  
TTTGGGGGTATCTGGTTCTGAATTCCTTCAGGAAAGATAGAAAGCAAAAGCAAAATAATA  
GGTTTAAACTAAAAATATCCAGGTGCGGTGGCTCACGCCTATAATCCAG

Sequence 743

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCTCCTTGGCAGCATCAATCAGGCAGGGCT  
CAGCCACACCCGGCTCCTAAAGACAAGAGAGCAGAGAAAGCAGAATGGTGTAGAGAC  
CATCGCAGTGACCTGATCCTGAAAGCACCTGTAGGAAATTGGCCTCCGCCAAGTGAATGT  
GACAATGCAGTCAGCCACAGTGACGGAGTGCAAGATCGGATCACACACAGATCCAAGAG  
ACCGCTCACCACACCTGAGAAACAAGAACCAAGACAGCCTCATGGAGGTGGAACCGTGC  
TACGCAGTTATGGCTTCACTACTGAATGCGATCTTGCAAAAG

Sequence 744

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTGTTTTTTTGGGTAATTTTCTTGAGT  
TAGAAATGTAGTTAGAACTGTGACTAACGGCATTGCCTGGAATGTGCTACAAACACGATT  
AGATATTCAATTTATCTTCTCGTATTAGACTGCTTGTAAAGAGACTCAGTGTAGACATT  
CATTTCTTCTTGTATAAGACTCCTTGTATAAGACTCGGTGTTCAATTTATCTTTTAA  
ATTAACCAACAACAAATATAGAGTTTTTAACCATTGCAATGTGCAATAAATAAATATAT  
CTGAAGTAGCATTAGCCTTCTAGTTTTAAATAATAA

Sequence 745

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCA



Table 1

TGACATATTTTTCCCATCTTCTTATTTCAACCATTGACTGGTTGTCCAGCCCCAAATTG  
TTGGACTTTTTTAAACAATTACACTGACTGGCAGTCTTCACCTTTAAATNGTTGAGTTC  
CATCCCTTTAAATCATTTAAAAACATGATTTTTAAATTTATCTCCATTACCTTATTTTG  
NGTTTACTTTTTTACTTTTTATTTATTTCT

Sequence 754

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGGTGGGGAGCTGTAT  
TTATTTCCCAGGGCTGTCAAAACAAATATCCATAAATTGGGTGGATTAGAACAACAAAAA  
TTTATTNTCTCTANAGAANAACGTTTTCTTGCCACTCCCTGGCTGCTGGTCATTGCTGGC  
AGTCCTTGTCCTTCCCTGACTAGTANCTACATCATTCTCATTTCTGCCTCTGTCTCATA  
TGGCTGTCATTTCACTGNGTGCTTGCTCTGGGTCTTCAAGTGGCCTTTTTATAAGGACA  
CTGGTCATTGGATGTAGGGCCTACCCCAATC

Sequence 755

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTTGGAAGGGTTTTTAAATGTTTTGAACT  
GTGCACAGGCCAAACCCCACTTTTCAGGACATGGGTTTTCAACTTCTGGATGGTATGATGG  
GGTGATAGTAGGGTATAAAAGTATCCTGAGAAGTTGAAAGCAGTGTGTGAATGGGGTGT  
CTTTTCTCCCCACAATCCTTTCCCATCTGCTGACAGTAGACTTAGCACCTCACAGATGCT  
TGGGCCTGGAAATGAAGCCATGAAAATGAAGCCCTCAGCCTTCTTGAGATCAGAGCCAT  
GGTCCTACCCACAGCACATGGG

Sequence 756

CCCTTAGCGTGGTCGCGGCCGAGGTACACAAAATATTAAATAGGATATTTATTTCTAAGC  
CAATTTTCAGAAAACAATTTACAACTTTTTTAAAGTATAAACATAGTGATGCTTACT  
ATAAAAGGAAAAGTATAAAACATTACTCAAGTATATATAGAAAATGAGTGGGCTGCTGAT  
CCCCCTCTATATTATCTATTGCTGTGTGACAGTATTACCACAAATACAGTAGCTGAAACA  
ACACATTTGTTTTCTCACAGTTTCTGTGGGTGAGGAGTTCAAGCATAGCTTGGTCCTCTG  
CAAGCTTACAATCCAAGGGTTG

Sequence 757

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTTTTTTTTTTTTTTTTTAAATGAGTAG  
GAAGAGATGGTATCACAAACACAAAGCACAGGTTACTGTCTTTAAAAATTTGCGTCTTC  
TATTCTCCAATGGAAGTGGGAACAAAGAGAAAAACCCCTGTGTGTCCTAGCACAAATATGGG  
CATTGTGTGGATTTAATAAATGGGCATTTGGATTGTTGGGAAAATGTGATCAATCAGCA  
GGCTATAGAAACACAGTTTGATACGATGGTGAAAACCTGTCTACAATGATGTTTTTTCAG  
AAATGTTGGTGTGATTAGAACAAGTCAGCAATGATGATGACAAAATATTTACATAATGTT  
ATAGATGTGGCTTGCTAATGGAAATACCTATCTGAGGCTGTTTAGGAATACACAAATTGA  
GAACCGTTTAGTTCAAGTTTGCTTTAAACAGTGGTTTTCTGAACCCCTTTTATGTTCCG  
NGACCTATGATTAGNAACCATCTTACCATTTTANAATCACTGCTTTAAAAAGTNGTNTCC  
GTACCTGCCCGGGC

Sequence 758

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTTTAAACAATGTTGGAAATGAGGAAAAT  
GAGCAATATCAACATTTTATCCTGAGGGACAGGGAGTAGAAAACAAGCCAGAGGCTGCTA  
GTTACATAGTTCACTCTTAGGGATGAAGGGATTTATGTCTCTCCTCCCTCAGGTACGCGG  
GGACTACACTGGTGTCTGACTTTTTCTTAGAGATTTCTCCCTGAAAAATACAAGGGCTG  
TTGGTGAGAGCAGACTTGAGGTGATAATAGTTGGCCTCTGGTCTACAAAGATTCATAAC  
TCCTTGGAAAGCTTC

Sequence 759

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCGATTGCCTCTCCCATGCTTCTCTGCTTT  
CCAAAGAAAAAACTGACCTTGTATAGATCCTGTGAGCTGATTGCAGTGCTCTTAACCTCT  
CCATTGTGAGTTGTTCACTGCTGAGGAGTTAGGTATAAACCAGAGTGGTATTCTCTTTTC  
TGTTGTGTTTGGTTTGTCTACATATTCAGGAGCTGCTCTTACCCCCAGAACATCCGTA  
TATATGTTTTTTCTGTTTCTAGATTTAAAAATATTCCAGAAGCCTGGCCTCAAGATAGA  
TAATATTTTACTTTT

Sequence 760

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAAAAT  
ATCCTTNATNAGGNAAAAATTTTNNTTTNAATTAACNGGAAAGTTTTNATAAAAAAAGGA  
TGTTAAATNGATTTNAATGCTNTTTTGNATTNGTNATANATTTTTTAAATTTTTTAA  
NCGNGNAATTGGGTNNTTTAATNGGGNGTTTTTTTTTAA

Sequence 761

Table 1

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATATAAAAAGGCTACTATTCCAAGAACAAAA  
TCCTGGAACAAATGTCTATCAAGAAAGCAAAGATAATCTAAACAGCAGCATATTATAG  
GATGACAAACTATTCAACCATTTATAAAGAAAACCGAATCAAAGCACTGGCTTATTAGAC  
AAGAGTTTCCCAAATCATGCTAAACAGTAACAGCGAGCTTCCAAATTAATGTTGCC  
TTTTTTTTTTTTTCCAACTGAAAGGAGGGTGGGGAAAAACAAACGCATCATATGTAAA  
GCACTGAGTCCAGCCT

Sequence 762

CCCTTCGGCCGCCCGGGCAGGTACGCGGGTATGGTTTTACGAACAAATTTTAAGGAAAA  
AAATTATCATGGTTCTAATCTTACATGTTAACATTTCTTGTATGTAGGGATCAGACTT  
GTTATAACATAATTCCACTTTATAATTCAATGAAGAAGAAAGTTTTGTCTGATTCTGAGG  
TATGTAATTTTCAATTATTATTACCATATTGATATTCTCTATATAAAAAAATTTACATAT  
TGTAATTTTTCAGGTAAAAGCTGTTGTGAACATTATTTTTTGTCTAGTGTAGTTAATTTAA  
AAAAAAAAAACTG

Sequence 763

CCCTTAGCGTGGTCGCGGCCGAGGTACGCTAAGGGANGNNNGAACTCATNAAAGAGAC  
AAAANGTGCNTTTTTGNTTNNAAAGGCATGCTGTGGTGGTTGGGCGCAATAAAATAGTTGG  
GGCCCCCGANTGCCANTGACTTGCTTTNTNGTNGGNAACNAAATGGCCCATCANGTTGGA  
CNCACCTGNCCANTTCACAAAGACCTTGNCCCCATTCTNTGGGAATGNAAGGGAGNGTTAA  
AAATAAAAAAGTGTGACCACTCCCTTGGATGGGTTTAGCCAAACCTTGGGNTCCANGCC  
CCTGGAAAATTGGTTTTAAAAGGGGGGGNAGNTNGGGATCCAAACCTTGGGGGGCCAAA  
ATAAGATACAATCCGTANCTTGTNNGGAAANTTCAAATTTTAATTGTTCCCCCAAGNA  
TTNGAATTANNAAAAAAACCCCAAATTTGGGGGAAGNAAAAAANGT

Sequence 764

CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTAGCGGGCCCGCCCGGGCAGGTAC  
CGCGGGATTCAATTTGAGTGGGAATCTCAAAGCAGTTGAGTAGGCAAAAAAANGAACCTN  
TTCATTAAGGGATTAATAATGTATAAGGCCAGCACCGTGTAACCTTCGACTTTCAAAGA  
ATTTTCTGGAAANCCATAATTGGTAGGTNATGGGTTTTCAATTTGGTCCGTTNCGCCA  
AGGGGGGGTAAAGTTNGAATTCCCTTGGGCGNAAGTTCCAACCCANTAAAGGCCTTCCT  
NAACNTTTTNGTTTTNNAACCTTTTTTTTTTAANGNCCTTTTTTTGAAATCCCAAAAA  
AAAAATTCNTTTTAACCTTTTTTTTAAATAAAGGGGAAGGCCAAGTTTTTTTTTCAAAA  
ACTTCCCCTTAAAAAAATGGNTTNGGAAAATTAANTAAAATTAAGGTTCCANGGNTTT  
AAAAAATTTTCCACCCCAAGGCCCTTACCCNCCAANGGGGNAAAATTAACCAAGGGGGA  
ACCTTTTTTTNGAA

Sequence 765

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAAGCAATGTTTTTTGAAAGTTTTCTATCTGT  
GGNTTGTGAATCCACAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATT  
TCAGAAAATCAGTATTTACATAATCANGCTAATAGCCTAATTTGTTGAGCACAGAAAAA  
ATACACTGAACCAATTCTGATTATTGCANGAGAAATGATTGGCAGGATATTGGGAAATAA  
GAATGAAGGGCGGANAGAATTTACATGGATTCAATATACTCTCCGTCAGNGAATTTTG  
TT

Sequence 766

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAAGCAATGTTTTTTGAAAGTTTTCTATCTGT  
GGTTTGTGAATCCACAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATT  
TCAGAAAATCAGTATTTACATAATCAGCTAATAGCCTAATTTGTTGAGCACAGAAAAAT  
ACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGGCAGGATATTGGGAAATAGAA  
TGAAGGGCGGAAANAATTTACATGGATTGAGTATACTCTCCGTCAGGAATTTTGTCCC  
TTGATCTTTTTGTGGTTAATGCCTTAATTTATTGGGGCCCTCTCATANGTTTGGGGG

Sequence 767

CCCTTAGCGTGGTCGCGGCCGAGGTACAATCAAAGGAGTCTAATGGAACCAAGTAGCAAT  
GTTCCCGAAAAACAAACAAAAAACCCCAAACATTTTGCTGTTTCTTTCCCTCTGTA  
TTTGCTAACTTTATCATGACTTTATTCTTAAAGCCTATCACTGGTCTGCTTTTATTAATA  
GATTAGTGGAAATTTTACCTGGCCTATTAGCACCTTATAAAGAAATAGATTAAGAGTAG  
GAAATATATAGATGAAGATGACTGTATAGAAGTTGTGTAATCAAGTATGAAAGTTCAA  
TGTTGCTGTTCTTGCTCAGTGGATTTTAAAGAAATTGAGTAGTTCCTATGTGGATTTTT  
TTTTTCTTTCTAACTG

Sequence 768



Table 1

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATNNANAAGCGTGCATG  
GGGATGAAAAAAATTTTTNNTNTATAATCNNGNTACAATATATACAATAAAACACCTA  
AAACGCAGAGGCTTGCCCTTGTTTNTCCACAAATANGTTAAATACCCAAATTAGTAATTAA  
ATGGATTGGTGGTTATGGTAGGAACACCAAGACNAAAAAGCCAGGCCGGGACCGTNATTT  
TAATTNNGGGCCAGTACCACCACNATATAAAGGCCACCAACCAAAAAAGTCCANANANG  
CCAANAAAAAGNCAACCGCCCCAAGTTNAAATNGTTTTGTTGGGGAATTGNCCCAGTTA  
NTTCCAAAANGGAATTTTTGGTNCCCANTTANTTAAGGAACCAATTTAAATAATTCCCCC  
AGGTTTANGGAACNACCTTNGTTNAAATTAAGGTTTTTTTTTTGGGGTTNACCCCTTC  
GGGGGCNCCGCCNGNAACCCCANCCGTCNTTAAAAGGGGNGGCCCGAAAAAT

Sequence 769

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTATTTTTTTACTAAGGTTTTGTTTTGGAGA  
CTTGTGTTGAAATAAAGTGATCCTCATTGAGGATTTAGAAACAAAAGTTATACTCCACATG  
CTAGGGATTAGGAAGGCTAATGTGAAGTATGAAAAGTATGAATTATGGAATGCCTTTAG  
AATAATCAACTTTTAGGTAATTTGATACTGCTATAATTTCAAGCTTAGAGAAAAGTTGTA  
AGAATGGCATAAGGAACCTCTATATATCC. TTATCTAGATTCACTAAATGTTTCATTTTGT  
GCCATTTGTGTTATTCTTTGTCTCATCTAGCCCAGTCAGCCTAACACCACCCAGGGGAT  
AAACCAGTAGTCTGATA

Sequence 770

GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTCTCATTGTCA  
CTTTTCAACACTTCCTGGCAGGCAGGCAGCATAACTGGTCTGCTGGGTGATCCAGACCA  
CACTCTGCAACTCTTTCTTCTGAGCCAGGCTCCCCTACTGTCTTTTCATTTATGTCAAAG  
CAGGGGAAGACCTCAAAGGGCTCTTGCACTCCAGTCTCACTTCCCAAGAGAGGCACGAGG  
CCCTCCAGGATGTGGGGACAGGAACTTGGGGCAAGCCCGGGGCTGTCCAGAAGATCACC  
AGGAGGGCTAAATAGTAGAAAGGAAAAGTCTTATTGGTGATATGTTGCAAACTGGGAAA  
AAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAGAGGGCAAGGGCAGCTTG  
GATTTTGTGCCTTACANGGTCNGTATTATATAATAGAGTCATGCATATTCANTAGGTTTG  
GGGAAAAGCTATATATATTTATGAAGGGGAGCCAACTACATGGGCAATGGATAAACATA  
CATGTAACACATCCATGTTCACTTTAGGGGCA

Sequence 771

GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATAAAGTATTCCA  
AGGGNNGNAGAATNGAAAAANGANGNCTNNCANCTTGNTNNCNTTTGGGAAATGGGATAT  
CCTTTGGGGAATGTAGTAATCAGTATATTCTGGGNAAAACATTAGTTAGAGAATGAA  
NTAAATAAAATTTCCATTGAATTTGGAATATGTTGTCCATTCTCCCTGTAACTAATGCT  
ATCAANGATAAAGTANGAAATACCACATTTAGNAAACAAGCTTGGAAGTAGNACAAGGT  
CCTTCATTAGNGCCNTAGCCTTGGNAAACCTTAATAANCCTATNTAAATAAAATTGAAA  
ANTTTTTAAATTTATNACTCCTGG

Sequence 772

TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCACCAATAATGAGGCCACATT  
GTGTATGCTAAAAAAAAGTGTTTTNNTNTTCTTGGGCCTACAAGAATGTTTCTG  
TCCGCTAAGGAGAAANTNAAGAAAAACAATGGCCCCCTTNCCTTCCCNATNAANCCCCAA  
ANCCTTAAACNTCACAGGGGANGTTGNAATTTTAAGGAANTCCACCCCTTTNTNGGGGN  
NNCANTTTTTTCCCCCCCCAANAACCCCAACNCCCCATTTACCTCCTTNGTTAAGAAA  
TTTTCCNTTGGAAATNAAATNGCCNACCTTCTTTTAAANAAGGNANAAGCCCTNNACCNA  
AGGCTTCTTTTTCCCCCAATTTNCCCCCTTNATTCTNTTGGAAAAANGGCCCNAC  
GGGGGAACCCCCCACCCTTTGGGCCNTTTTTTGGNGGGTCCCAAGGGGGAAAAAAACC  
AAGGGGCCNATTTANCCNAAAACCAATTCACANGGANATTGGTTTGGNAATTTTAATTA  
AAAAAATNNGGGGCCCCNACCCATAATTTCTTTAAAAAAAANGGTAAAA

Sequence 773

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCATCCCCCAAGGCCTTTTACAGTCTGAAAT  
ATCAAAATTGAAAGCAAAATAGGATGACCAAAAGGACTACTATTTNACTCTCTTTTCAGN  
AACNTCNTACAATATGTATGAAAACCTAAAATATCCACTNTATGGGATCATCANNGGGG  
GAANNTAAANTGTTGCCNTGTTTTNGNAAANGGGGCATTGANGATGATTTGGGATGTN  
CNCANGNCCCTGGGGCANTTTTATNTCAAGGATGNAAGGGGNTNNCATTAACTGAACCA  
AGTGGANTGACANGNGTCTTCNCNTTATAAATACCAANGGGGCCGNGTTNTGGCNAACCC  
CANGCCACCCCAATTGGAACCTTATGGGGGGCCTTNGGCCNTTTTTTANAAAAAACA  
AAAAATTTTTTCTTAAAGGGGGAACCTTTACCCGGNCCCTTCTTNTTTGGGGGG

Table 1

## Sequence 774

CCCTTTTCGAGCGGCCGCGGCCGAGGTACATATACATTATGTAATTAAGCGTGCATG  
TGTATGTATTAATAATGGTATATAAAACAAATTACAATTATATACCAAATAAAAC  
CACNCTAAACGCCANNAGGGCATGCTTGTTTATCCACCATTATAGNTAATAACCCAA  
TAGATAATTAANTGGAATTGGGTG

## Sequence 775

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGAGAGGGGTCATC  
CTCCAATCATTAACACTTCTAATCTTCACTGCTACACAGAAGTTTCCAATATTAGCAA  
CAGATGGCTTTGCTTTTACCTTATAGATGAGGCCAAAGCACCAGGTAGGTGGAAGGTTCT  
TGTATCGGTTTGAACCCCNACAGCGCGCCAAC

## Sequence 776

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGGNCTGCC  
GTGGAGAGGATGGATGGGAGGGGAAGAACGAGAGCTTTGTTTAGAGGCTGCTGTANTAA  
TCCAGGTAAAGGCTTTAATCATGTCCTGAACAATGATCAGCAATGGCAATGGANATGAC  
AGAACANAATTAANAAGGAATAAAAAAGGCTTCTGACTACTTGGATGTGGGTGANG

## Sequence 777

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAGCCAAATGCAATGAACAAACCAAGGTTA  
TTGATAATTTTACATCACAGCTCAAGGCTACTGAAGAAAAGCTCTTTGGATCTTGNATGC  
ACTTCGGGAAAGCCAAAGTTTCCGTAAAGGGTAAATCGGNAAANTGAAAGNAAACCTTT  
AAGACCAGNCAGCTTTGAAGGTCAGCCTTGAGTAANACAGNAATTTAATACCAATTTTAA  
GAAGGAATTTGGAANAAANGAAAAATGGCCTTGAAANAGGTTAGGCCAAAGGGGCTTAGG  
GTTAAGTTCNCTTTAACCCCAAGGAAAGGAAGGCCTTNCCCATGGGGGGGGGAAGNAAAG  
NANGNCCTTNAAGGCCCCCTTTAACCCCTTAAACCCCTTTTTTCAAGGGGGAAAAAA  
AATNTTTTGAAGGTTNGNAAAGGGTCCANGGTTTCCANAAGGTTNGGAAAAAAGTAA  
AGGAACCTTTTTTGGGGGATAAAAAAAGGGAAACCTTTCCAAGTANTTTTTTTGGG  
AAAAAAGG

## Sequence 778

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTTATCAGGATAATACTAGCTTCACAGAAGA  
AGCTGGGAAGTATCCCTCCTCTTCTATTTTTTTGGGAGGACTATGTGAAGAACTGGTNT  
TAATAAAACCTCCTTATTAAGGAAATTTTTTAACATACCAAAAAATAGTAAGAATAGTAT  
CATGAGTTCCTGTGTGTATTCCCGCCTAATCAATAATTATCAATAGTCCACCATTCT  
TATTTTACTTATACTTCCCCTCCCCAACACCTTACTCTTTTGGCGGGGGCTGAAATTTAT  
TTAAAGTAAATCCCAAGACATATCATTACCTTTAAATACTTCAAATGTATATCTTCTAA  
CAGGATAAAGGACTTTTTTTT

## Sequence 779

CCCTTAGCGTGGTCGCGGCCGAGGTACTACGAAGCTGCAGATCATTACGCTGATATGAAT  
GACTGCTTGAAAGAACAATGACTCTGGCACAGCCACTGCTTTTACCCAGGAAAGCAGTT  
TTTACAGAAATGGCTTTGATTTATACTTTGCACACCATTGAGAGAATAAAAGAAAATCT  
AAAAGTTAGTCTTAGAGCATACAAACATTCTATATACTATTTTCACTCACTTTATGTGATA  
ATGATATATAATTTATATACTGAAATTATTTTCAAGGATCCACTTACTGTGCTTAAACC  
CGAAAGTGAATGATTAAAGAGGCAATGGAATTATCTAATGTATCTTTTATAAATTAAGAA  
ATCAA

## Sequence 780

CCCTTTTCGAGCGGCCGCGGCCGAGGTACAGACAGTGTGATGGATGATGCTGCTGGTTGT  
AAATTTTCATCGTGTGTGTCTAATTTTTTTTCTGTATGAATGGGGTAAAAACAAACANN  
AACTTTTTTTTAGGAAGATTGAATTTTGCNTGTCATGTTTTTNGTAGGNAATGAGGGGN  
ACTCGTTTGNAGTCTTACCTAACNCATCCCTGNGNAGTTTNTGAAGTTTGGAAAGNCC  
ATTGAAANNATTGTGTGCCCCCAATGNCCCTTGACCNGCCTTNACAGTCCGNCNCTT  
NNGGATTCTTGAACCGTTGTC

## Sequence 781

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGCGGATGAG  
TCTTTTAAAGAAAAACACACAGTGAACAGTATCAANACACATTTTTTNGCAATCCTGAC  
AGCAGCTGAACCTCAGTTCTTACCTTGGGGGTGGCCTGTACATATCAAATCTATCAA  
ATTGGACCCTCAACTATGCATTTTCTGNGTGCAAGTTATATCTCAATTACAAACAAACA  
AAAACACAAAACCTATGGTTAACCCAAAACCTAAACTATNACCAAGAAATATCAATTGG  
GGTTATGGCATGACCATCTCCCCAAGAAAATAAATGCTTGACAGATTCTGAGCGGGA

Table 1

## Sequence 782

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAATAAATGAGTTTGCAGTGAATTGGGCCTT  
CAAATTACCTCAAGTGACAGATAGTAAGAAAAGCTTNTTTGAGCAGGTGGAGGTCACTGA  
ATCCCCTACTATGCACCTATCAAGATTTTACTTACTTTAATTTACTGGAAATTGATTTT  
TAAAAAATGACTACACTGTAACAAGGGAAGGGATCTGGGTTTTTTGTTGTTTTATTCTT  
GTTTTTTTTAAGTAGTTCAAATTCGAAACTGTGATTTAAAAATTTTTACAGTCAAGCA  
TTCTGATTTTGAACATAACTCCCTTCCCTTCTGTGTAACAAAGTCTCTCTGTTATCTC  
TTAAATTT

## Sequence 783

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCACTGTCTTTGCCATGAACTTTATAACA  
TGGCTCTCCAGGTGTTGAATCTGGTGCCCTGTCAACCCTGTGCTCAGGGAACACATGGCGG  
CAATCAGCATGTGAGGCGCAGAGGGAGGGCAAGCTCCCTTGTGATATTTGAGGTATCAG  
CTGACTCAAGTCTCTCTCCCTTCTCTCCTTATTCTCATGCTACCTNTCCCAACCATTGTC  
TTAACTTCCCTGGCCAGGATGCCTGCCATATTAATGGAGAGGAGGCAGTTTCTAAATGG  
CTTGACTTTGGTTGAAGTCTCAACTCAGGAAGCTCTGAAATTAATCCACCC

## Sequence 784

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTACTCGATTGTCAACGTCAAGGAGTCGCAGG  
TCGCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAAGTTGAAGATTAGTCCGCCGTA  
TTTCGGTGTACCCCTGGGAGGTGCCAGTCATTGAATAGATAAGGCTGTGCCTACAGGACT  
TCTCTTATAGTCANGGCATGCTTTATTAGTGAGGAGAAAACAATTCCTTAGAAGTCTTAA  
TAT

## Sequence 785

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGAGGATATGTGTGCATTACATGCAACCACTA  
CACCATTTAATATCTGGGGTGTGAGTATCCGTGGGTTTTTGGNATCCGTGGGGGTCTCGG  
AACCAATTTCTCCTGGATACTGAGGGATGACTGGATTACTGTGTGTTTGTGTGCTTGTTT  
TTAAGCTTCAAAAGATTATGTGATCTAGGAGTTGTTAGATTTTATTATTGGTCTTAAAG  
ATAAGCTTANATGTTGTTACTTTTTTGGAGTTTTTAGTTTACAGTGATTTTCATGAATCGG  
GCAGCTTCANACCACAGGAGACATNAAGCAGGTTTNAATTTTCAANGAAAGGCNTTTACA  
AGGCAAAAATATTTTGATTGGTTTGA

## Sequence 786

TGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAAAACTAAAACTGAGCAGTTTAA  
ACATTCATTTAAAGGGATATCTAATGTGTTTATTATTAACATAAATAATGTTTTATGAA  
AAATGTAACCTTNGTTTTCCAAAACAAAATGTTTAGGGCAAGAGTAACATTATTTTACA  
TTATTGCATCTCAGTTGAAAAATAAATGGCAACAAAAATTTCTTATATCTGCTTGCAGT  
TAATCTGNTCATTTTGTTTTGGTTGAANTATATTGAAGGAAATCTGTTCTCTCCACACAGT  
TTGTGTAGTGGGAAAAAGGGGGGAC

## Sequence 787

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGATTCTGTTAAGCAGGCATTGCTTTG  
CCCTGGAGCAGCTATTTTAAGCCATCTCANATTCTGTCTAAAGGGGTTTTTTTGGGAAGA  
CGTTTTTCTTTATCGCCCTGAGAAAGGATCTACCCCGAGAGGGAGNAATCTGTAGNACAT  
TCTTTGCCTACTTNTTACTTTTATTAGGCTNTTCTTCCCTNCAATTTCAATTTTCTGT  
ATTACCACCTTTTTTCCCTTTTTTTGGGGGGGAAGA

## Sequence 788

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGC  
TTNTATTTTCGACCGCGATGATGTTGGCATCTGGAAGGCGGGAGCCACTTCTTCCGTGAA  
ACTTGGCCGTAGGGAGTAAGTCGCCGAGGGTCTNCNAGNCGTTCTTNCCTGAAGGATGC  
ANANACCCATGGCGTTGNGCGGACCGCGCNTCTTCTTCCATNGGAACATTCAAAGGNN  
AGNCNCAAGTTTTGNATAGTANTGTAANTTTGGNGGGTTAAAAAACCTNCCCAANGNAC  
CGGCCCTATTGNAAAAAGNCCTTGNCCTCAANTGNGGCCCCCTTGGGGTAAGTNAAAA  
AAAAAAGTCCCTTGTAANCCCCAAGGGGCCCCCTTTTTTTGGGGGAATTTCC

## Sequence 789

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTAATTTCTTTATAATTTGTTTCAGCTATTT  
AAAAAGATAATCCACAATCTCCTACCGCCATTAGAGCACAGGAAAAAAAATTCAAAAAT  
AAAGGAAAAACATGGCTCATATATCTACAGAAGTCACAAAAATACTATAGGGCACATATA  
CCCAGGCTCAGCGGTGGGAAGAAAACATACAACCACCGGGCAAAATGTTTGAACACTGA  
AGACGGGAATTTTTAGGGCC

Table 1

## Sequence 790

CCCTTAGCGTGGTCCGNNGCCCGAGGTAAGTCGCCCTTATGGAGCCCTTGATTGAG  
GCTTCAATAGTGTGGACAGTGGTGATAAGAGATGGTCAGGGAATGAAGTAAGTGTTCCTT  
ATGTTCCGTGTGTTATAACACCTGATTAAGAGAAAAACAGAAATGATGAAAATGAAAAGCCG  
TCTTAAGTGGATTCAAGTTTCTCACTACATAAAATACAGAAAAGTCAAGGTGGAGGCAAG  
ATCCACCCCTCTCCAGCAGAATTGGCATTCTGCGTCTTACCGGCTTCTGTACAGTGG  
ATTTCCGCTGTTTCTCATTGCCTCATGGAAATAGTTTCATATCATAGAAAGGCAACA  
GGAGCTGAGCCAGTTTGAACTGAACCTACAATCTGAGGTGGGGGGTAATCTCGAGCAGA  
AGTGCTAGATGGTGAAAAACAAGTAGGACTTTCGGCTGATGGGTAGAAACAAGGACCTT  
NGTAAAGAAATATTCATGTGCTCAAAAAGGAATAACTTCCTGGCTAATCTTGCCTTTTC  
TCGTTTTTAAATTAATTGGATATTATGTTTTCTGCTCTTAAAAATTAATNNGTNCACAG  
AAGTCTACCAAAAAAAAAAAAAAAAAAAAAA

## Sequence 791

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCCGCGCCGAGGTAATCTTTTCTCT  
TTCCTAGACCGATTCTAGTTTGTTCCTTCCCTTCTCGGAAACCCCAAGTTTGTGGAT  
GCTGCAGACACTCTGTGCCCCCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAA  
GACAGAGACGATGTGGCCTTTGTCTTAAGAATGAGGTTTGAAGCCCTCAGTTCTTCCAT  
GTTAGGTGATTNCTTGACGCTCTTGGTATCTGCAGAATTAGTGTAATGCTTAAAAATA  
TTAACAGCTTTATATCATCAAAGTTTTAACAGTACCTGCCCGGGCGGNCCGCTCGAAAG  
GG

## Sequence 792

CCCTTAGCGTGGTCCGCGCCGAGGTAATTTTTTTTTTTTTTTTTTTTTTTTTTGA  
GCTGAAGGCCACAGTAGCTAGCTAAAGGCCACACCACTGAACACTAAACCTTAACCTTTA  
CTGGCTACTTTGTANATAACATTACAGCTCACCATGAATGCAGCTGCAGTCAACTAACA  
NATATGAAGTTACCACTGTATTACATGGTTATATTAGGGACTGCTTNTACCTACTGGAGG  
CTGGGGAGGAATGTAACAGCACAAAGCCATAATGAAGTTTATATACAGGCTTAATATAAA  
NAAAACCTAGAAATGAACCAACACAATTAT

## Sequence 793

TTTTTGAGAAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACCATGCAGGGATAGCTG  
AGTCTTTCATCCTCCTCAGCCCCTATCTGTCAGTGCAGTGAACACCAGCTGCTCTCTCC  
TCTCTGGCTCCCATGGCAGCCATGGTCTGTTGCAGAGAGAAGAGGATTGCCTGTTCCCTC  
TTTAAGGGAACCTCCGTTTTGCTTTCTGGAACCCAC

## Sequence 794

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGAACTTAAATTTATGATGAATATCTTTGAT  
AATGAGAAATCCTGAGAGATTTTACTTTCAATTTTATTTAATTTGAAAGAGCATATGAC  
ATCTGGAATATTTTAAACATATAGCCATACTGTTTATTTAAATTTGTAATAATAGAAATA  
GAGTAATCTACTGTTGGATTTTAAATTTTAAATCATATTAAGTTTAACTGGATTTTAT  
TTAGGACTAAAATATTTAGGACTAAATAAAATTTATTAATTAATTTAGGACTTTTGGGA  
AAAGATATTTTCAAGATTCAGTGCAATCAAAAAAGCGAACAACAGAGGCTTCATCTTT  
GAAAACCTCATTGGCTAAAAGTGCTTCTGTAATACTGATAGTGAAGAACTGTTTTTAC  
ATCCCGAGATGTGTTTGATG

## Sequence 795

CCCTTCGAGCGGCCCGCCCGGGCAGGTACCCCTAGGTGATCTTTGGCTTCTCAAGTTTTTG  
CACCCTCAGAATCATTTTATATACCACTTTGGCAAACATGCCAGACCTGCAGTAGACT  
GAAGGAAGCTCTCCCAAGCTCTAAATTGATTAATTTATTAGTTCTAGAAAGAGAGATT  
ACATGTTTATCTTTTGTACAGAAGAACTTTGAATAGCAGTTGAAAATTTGGCAGGGT  
GGACCACCTAACTTGACAGTGATTATTGTGTCTGTTTTGAAGGAATAAAATGGAATTAT  
TTATAAGTTTTTCAATTTGATTAGAGA

## Sequence 796

CCCTTAGCGTGGTCCGCGCCGAGGTACACTATCTGACCTAATCCTCAACACAACTAAGG  
CAGGAGACACAGGGCTGCAAGGACATTTGCTGCCATCCAATTTGTGCCAGCCTGTTTTAT  
CAATCTGAACCTATATTTTAAAGACCTCACGGCATCACTGAAAGATGAGTATTATTA  
GTTGGAATTTTAGGGATGAGAAAACGACCCTCAGGGAGAATAACTGACTTGCCCCGGCT  
CCAACAGTAAGTGCCCTGCTGGGATTTGAACCCAGGTGTGTCTGACCCCGAAGCCTGAT  
CTGACCTCTGACAGTCGTGATAAAAAATAAT

## Sequence 797

Table 1

CCCTTGCCCGCCCGGGCAGGTACCGAAAAATGATTTTGTTATATATATTTACCACAATAA  
AAAAGTTTTAAATTTATTATAGGTGACACTGTTTGCTCACTGTAGGTCAGGTATTTTTTG  
GTTTTTTTTCTCTTTATTTTATTTTTGACCAATGGATTACGTCACCAGGTGATTTTTT  
AAACAGCTTTATTGAGATATATATCACGTGCCATAAAATTCACCCATTTAAAGCACACAG  
TTAAATGTTTTTAGTATAGAGTTCTGCACCTCTTATGACAATAAATGTTAGAATATTTT  
CATCACTCAAAAAGAAACCAGTATCCATTAGCA

Sequence 798

CCCTTTGAGCGCGCCCGGGCAGGTACAATTTTTATGTTTACAGCTGTAACCCCTGAG  
TTATCAAGAGATGGAACATTAGATATGATTTATTCTATTTAAGATAATAGGACATTGCT  
TGATTACATTTTCAGAAGATATTTATCCAAAGAAATTTTTTTTTTAATCTAAAGGAAAG  
GTTTTGATTCTTATGAGAAAAGAAATGAGATTTCTTTAACTGGAAAATGATTTATGTCCT  
ACAGTCCATTGTGTAGTGATGTTGGATCAATCAGGTATCNCCTAGGGTGTCTGNAGAAGTA  
TCTATATATTGCTTTTTAAGTTCTTAT

Sequence 799

CCCTTTGAGCGCGCCCGGGCAGGTACCATGTAGCTCTACTTTTCCATATACAGAGTT  
GTTTCCTAGCTTTCTGCTAATCTAACTGGATTCTCTTCCCCATTTCTCATTTACTAGA  
TTATAATGCACATCACATAATAAAAGCTTAAAAATGGGCTTTCACAGTTACTGTTTTCTT  
TTTAAATAATTGTGAGAGAGCTTTTGCATCATTTATTATCTAATCATGATTCAGTGACT  
AGGCTGTAGCACCCAAAGAACCTTGCCTTAAACAGTTTATTTTACCCAATAATACTACTT  
TGCCTTCTTACTTAAAAATGTCCCGTGCTTAACCCCTTTGCTCTTATTTTGATTTAAGC  
ACTTGACC

Sequence 800

CCCTTAGCGTGGTCGCGGCCGAGGTACTNCTATTTTTAACAAGGCTCCCTCAAGATATT  
AATGTGACAACTTACATAGCCAGCTGTAAGATAATTCTTCAAAATGCGCAAGTAACCTA  
ACAGATTTGTGCATGTCAGCCAGTAATTTCAACATACATTATAAATATGGCCAATTTTCC  
CAAATTCATAATGAATGGAGATAAAATGCTATATAATAAATATGTTAGAGCACCTTTCTT  
GAGAACTTNTAAAAGGAAAAAATAAAGACATAATTATACTCACACCACCAGTAAACC  
TCTGGTCACCTGTTTTGGGTTGTGGGAATGCCCCCAGCAGCCGAGAGACCTATATT

Sequence 801

GATGGATATCTGCANAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGATTATTCTCC  
TGCTTAGGGAGAAGCGGAAGAAGGCCCTTGGAAGTGTGAGTTTTGCATTCCAACCTTGCTA  
ATTCAACATAGATCCTAATTCCTTAAATGCTTGTAATTAGAAATTCTCGTGAAGTGTATT  
GGTTTTTGTCAAGCAATCTGTTTGGGGAACCTGAGCAACTGGGGCACTGCTGGCTAGGGT  
GAAGTTTATTTAATTTGGTTTTATGACATTCTTCATCTTGGAAATGGGGTTTTCAAATAT  
TGCTTTCCCAAGCATCATTACTTATTTGCTGGTTTTTA

Sequence 802

CCCTTTGAGCGCGCCCGGGCAGGTACGATAGGCATGCAATTAAGAAGACCTGCCTCAA  
ACATTTTCTGTGTGACCTGAGGCANGTCCTTTTATAGCTATAAACTAGGGACAATATTTG  
CTGTCATTTTTCTACAAATGTCACAAAGAACAATTTGAGCCTGTCGCTGTGAAAGAAC  
TTAGCAAATGAAAGCATCCTAGGGAGTGTTTTAGATATCGATATTTTTATCCAATTAAC  
TTTCAAAATGAGTTTATTTGCTCACTGAAACTGAAGTACCTCNGGCGGGACCACNCTAAG  
GG

Sequence 803

CCCTTTGAGCGCGCCCGGGCAGGTACGCGGGGGGTTGAGCTGTCTCTTACTTTTAAAC  
CAGTGAAATTGACCTGCCCGTGAAGAGCGGGCATGACACAGCAAGACNAGAAGACCCTA  
TGGAGCTTTAATTTATTAATGCAACAGTACGCTTGGGAGTCCTCAGCAGGGGGATCATT  
CACAGTGAGGACAGACACAGGTGAACCTATGGGTCGTGGAACAAAAGTTATCCTACACCT  
GAAAGAAGACCANACTGAGTNCCNNGCCGNGACCACGCTAAGGGCGAATTCCATCACAC  
TTGGCGGC

Sequence 804

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTTGACAGTGCCTTTTAAATTCATTTTGCTG  
GACAGTTGGCAGGCTCTTTCACCTTGAGAGGCTTATATCTTAACGATTTAGAATGGAGAGT  
TTGGCTCAAGCTCCCTGTGTGTGGTCTGTGCTTTCTATACTTTTATTCTTGGTATTCCAG  
AGTCTGGAGGCTTCTCTTTTTAAAAATTGCTAGGCTCCTGCCAAATGTTATAATTTGGGG  
ATGTGAGTTCACTAAGAAATCAACTGACAAGAGGCAGATTAATAGGAGAAATGACATCGA  
AATTTATTAGCATGCAGGGGGAAAAAATGATTACCAAATATCCAGTAGGGTAGAGATG

Table 1

CTTATATACCCACCTCTTAAGAGAGAGGGAAAGTGGATGATTTTAGGGGAATAGTAAAT  
ACTTTTATGGGAACTCACTGGGCTTGAAGAATATAACAAAGGCCTGGGACAAAGTCTGT  
TGGGCCCACCAGAACAAAGACAGTGGTTTATGACAAAAGTCTGTTGAGAAATGATTGAACA  
GACTTCAATCTTTCTTCTTGAATATGATTCAAGTTNAAGGAAAACCTAGGGAAGGGACTA  
GAGGGAAATNGT

Sequence 805

CCCTTCGAGCGGCCGCCCGGGCAGGTCCGGGCAGGTACTATTACTAGGTTCAATTGTTTCC  
AGAGGGGTGAAACGGGGCTTTGGAGAGGTTAAATAACTTGCCCAGGGTCACACAGCTATT  
AAGTGGTAAAGCTGGGATTTACATGAGCCCAGACAAAGAACCCAAGAGCTAAGCTATTG  
TCTTGTAAATACCTCCAACATAGGAGGCAAGAAGTGAGGTATTATACAGGTTGAGGAGATA  
AAGGGGAGAGAGGCCCTGCAGTGCTAACAGGAGGAGCTGGGATTATCCTGGCTTGTCTG  
ATAGGTCACTTAGTCTTAGAGATACCCATGAGGTCACCTACTCAAATGGGGCTCAGAGT  
AGCCTTGTCCCATTTCTTGTCCAGTGGGCGCAGCTACAGTCTTCTGGCCTGGAGTGACTG  
GAGGCTGTCCCCACGTCCCACTTCAGTGAGGCATTATGTGCACCCAACACACTTTCTAG  
CTTTATTTGCCTGGAGGGGAAGATTCTCCAGAACCTTGTTAAGATGCACAGTGTGGTCTC  
CGGACTGGCAGTGTGGCCTCGGCAGTCCCTGGG

Sequence 806

CCCTTAGCGTGGTCGCGGCCGAGGTACACATATATACACACATATATAGATATATACACC  
CACATATATATTTGCTGACATTTTAATGTGAAGTTTTAGTCTGGGATATAAAATGGAATG  
TATGACATCCTCAAATGTCTGAATACTGTTCACTCCTATGTTTTACATTTAATTTTCCAA  
AGCAAAACATTTTCAGTTGAGGATTTTATTAGAAAATAAATAATCATTAGCCATCTAG  
AAACCAGAATAAAACAATGCCATAAAGCCTATAGGAAAATGCAGGTCAGATTCATAAATAT  
TCATGTGTTTACTTTTCAGTACAGGGAGGAATTTGAAGTAGATAGAAACCGACCTGGATTA  
CTCCGGTCTGAACTCAGATCACGTAGGGACTTTAATCGTTGAACAAACGAACCTTAATA  
GCGGCTGCACCATCGGGATGTCCTGATCCAACATCGAGGGTCGTAAACCCATTGGT

Sequence 807

CCCTTCGAGCGGCCGCCCGGGCAAATTCCTATGATGTCAGACCACTGGAGTTTCAGGG  
GCAACACCCCATACCGTCCCGCTGCAGAAGAGCATCANANGTTCAGAAGAATGCAAAGG  
ATCTCAGTGGGAACGCGGACAGGAGAGCCCCAAACCAACACATGCTAGGGCTCTCTAGGC  
CCTTTCAGGCTAGATCTTGACGAGAGAAGAGTAAAGATCTTCTGAGGTTGGTGCAACTG  
AGGAAACGAAAGTTTCGGCCTCTGCTGTGAGATCTATGAAAGGAAAGAACTGTGAAGTTG  
TCCCCTTTTGTCTTCTTGTACTTAAACAAAGAAATCACTGGAACAAAGTCTTAAAGT  
AATAACAGAAATGTCAGAAAAGTTGAACATCTTATGGGCACATGCGGTGAGTTACGCTAA  
CTTATAGCATCCACTGAGATTAGCCCGCATAGGATCTTCCATGTTAGAGCTAAAAGGA

Sequence 808

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCCCCTACCTATAAGGCATTTATAATGTGCT  
GGGCATTGTGACACTTTTTCATATATTATCTCATGAAATCCTCACAATAATTCTGAAGGTA  
GCTGGTATTTTATCTCCACTTTACAATTCGAGGCTTACAGAAAGTTAATTCAGTGGCCC  
AGGGTCACACAGTTTACAAGTGCCACATTTGGTGAATATAAAGTAGCAACTTCTAAGTTTC  
ACTCTCCCACTTCCCTAGTTATTTTCTAAGGCATGAATGTCTGGGAAATAGCATGCATC  
AGATTTTCCACCTCTTTAAAACTCTTCAGTTTCATATAATTTAAGGGTGTGACTATTCATA  
GATACCTTTGAGCTAATCTTCTGGGAGCCAATGTAACCGCAATGCACACTGCAAAACAAT  
GCACGCTTNCCTGTAAATTAAAAATGCCAACCCGAGCTTTGGGAAAAGCCCATCTTTTG  
ATATGAACAAATTAGGGCAGTTTAAAGTTTATAGAAATNAAGAAAGTCCACTGGTCTGCTTT  
T

Sequence 809

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTCTTTCTTTTTTTTTTTTTTTTGAA  
GAATATTGCATACCTATTAGAAAAGTCTTTTAAACAATTAAATTTGGAAAATGACTGACAA  
ACTTACACTATTTGATTTAAATAAAATAAATAAATGGTCACATGATAACAATCTCCTGATT  
GATATGCTTTATTTAACCAGGTTCTCAAACCATTTGGATGTGAAAACCAAATTTTACAATG  
CANAGGTAAGTGTTGAGTGTTAATGGGATTTTCATATTAACATTAAGATCGTATTTGAC  
TAAAAATCTCTTATATACATTTCTAATACTGAAGCAAATCGCCAACGTGACTGTAAATTA  
TTTGAAAAATCACAAATTTTCAGTTAAATTTGAATAATTTTATTATAGGTCTCATAATCT  
TTTTCAGCTTACATGGAATCAATGTGCTTGTATTTTATTCTCGGTAATTTTATAAGGCC  
TTTCATCTCCTTTTCGGTTAAATGATTGCCCTCTCATTCCATTTAATGGNGGTTGTACACT  
AGCAATCTGTTGGAATATTTACATGTGGGTTCGGGATTTTCCAAAAATTGGAATTANTAG

Table 1

AACCTACCGCTGCAAAATAGATTAATATTCACATGGGAAAAATCCTGGNCAAGGGGAANT  
TTCNNCATTAAATNTTTNCAGGGGAGTCCGGTTGGCCANCCAGAANTAAGGTNCTGGGT  
TNGGGGAATGGCTTAAAGCCCTTGGGAAAAACAAATTGGCCAAAAANGGGAGTTACCT  
TTTAATTGAANAANTTTTTTTTACCCTNAAAAANGGGATAAAATGNACTTGNCCNAAAA  
AAAAAAA

## Sequence 810

CCCTTAGCGGCCGCCGGGCAGGTAATTCATTTCTTTTATTTCATATTATTCACCAAAT  
AATATTCCTACTGTGTAGATCTATCACATTTTCGTTTAGCAGTTTATCAGCTGGTGGACAAT  
TTGGCTGTTTCCATTTTTTGGCTGTTATGAATAATGCTGCTATGAGTCATAGAAACCATT  
CCTCTTACTCAAGAAACAGGTTCTCCAGAACTAAGCTAACTTGTGTTGAAATGTAAAT  
CTCAGGTATTCTCAGTATAGACCTATAGATTCAGTTAGCTGGTGGGGTCCACCCAACTTC  
TTTTAAACAAGTCCCTCAGTGGATTCTGATGCAATGCTAACATTTGTGAACACTGTCAAAA  
TCAAATGGAGTCACTTGTGTTTAAAAATCCTGACAAATAAGCCAGGGACAGCTATGAA  
GAGAGGGTTCTCATGCATCAATGCCTGATTAACAAAAACTATCCCAAATGACTCTGCAA  
AACCC

## Sequence 811

CCCTTAGCGTGGTCGCGGCCGAGGTACAATCATTAAACTATGTTGTAATACTGTTTGTG  
TTTGATCCATTCTGGCGTGTCTCCATACACTTCACTAATATTTGATATACCTGTTTTAT  
ACCAATATAATGCTGCTGTGTACGTAGAAGCTGTAGTCACCATATCCTCTATTTGTTCA  
ATTATTTTTTCATCTTCTGGCACACTAGGATCTATAACAATGACAATATCTTCAAAGCCA  
TTATTATTCAGCTTAATGAAGGAAGTATTTGACTGGTGACGACGGCACAGAATAAGAGG  
AAAACAAAACCTCTGAATAACCCCATTTGTTCTCTCTAGTTATTCTGGCTCAAATGTTG  
GTTTGTTCCTCGCTCCTGCCCGGGCGGCCGCTCGAAGGGCGAATTCAGCACACTGGCG  
GGCCGTTACTAGGTGGATCCGAGCTCGGAACCAA

## Sequence 812

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAAGAGTTATTAATACTATTTTCAGTAAAAAA  
AAAAATTTAATAAACCTGTGTGATCCCATTTGTAACAGAAAGGCTGATGTTTTCTGTTGT  
GAAATACAAATGCAAGGAAAAAATCATTTCTTTGTTTCAAAGGATGCATTTCTTCATAA  
AGAATAATTTGTATTTATTTTAAAGGGTTTATTTTAACTTATACATCANCCTATNTAAAA  
TACATTTCAAATGATCTGTGCTCTTTAAATTACCAAAGCAA

## Sequence 813

CCCTTGAGCGGCCGCCGGGCAGGTACATGTGCATAAGAGGGAATGCTTCCCTACATTAC  
TCCAGAATACAAAGCTTCTTTCTGCCTTTCTCATCCACATAATGGAAGACACTTCTTGGG  
TGAAATACTCCACANTTATTTCAAGTCTCACTGGTGAATATAAGCTCTATGAGA  
GCAGGGACCTTGTGAGTCTTATTCACAATATCCCCAGCCTCTAGAACAAGGCTGGCACAT  
AGTAGATGCACAAAAGGTGTTTGCTGAATGAATGGATGACTGAGTCTGTGTGGGGTAATG  
ATAGGGCTAAGGATGGGACTCTAACTCAGGTTTCTCTGTGGGTTTTCAGTTTACTGG  
TCTTAAGAGGAGAGTTTCTTAACTTGCCTTATGATAAAAAACCACCTTCAGCATTTGNTA  
AAAATTACCCATTCTGTAGATTCTGAGTCAGTGAGCTGAAGTGGAGCTGATGAATCCT

## Sequence 814

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGNTNTT  
TTNNCA  
ANNATTAATAAAAAATTATTTTACTACAAACAGANAAACGAATTAACCTANNANCT  
AANATACTTTNTGGAATTGAAATGATACATTATATATACCTATNANGATAATNGNNTATA  
NCGNNNCTAACTACAAATTAGTCATAAAAAANGACTTNTGTNCTATATCAATTAACAACT  
GGTATTAATAATTGANTATNATAAGACAATA

## Sequence 815

CCCTTTCGAGCGGCCGCCGGGCAGGTACAAGTATTATGTATCCATAAAAAATTAATAAAT  
CTTTAAAAATGCATATGGGGTCACTAGGTAAAAGAAAAGAGAACCAAGAGCTGCAGC  
CGGGGAGCACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGAAAAGG  
CCCGGCATTGCTGGAATCCTAATATTTAAAAAGATGATGGAACCTTGAAATTTTATATT  
TAATCTTCTCATTTTTTAAAGTGTGGCAATGTATTGAAGACTTTGAAGCCTCTCTGCTGGT  
CAAACAAGATGTATCTGTAGGCTGGATTTAGTCCACAG

## Sequence 816

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTGAATAGCTATTGGTCTTCAAGTGGGTTT  
AGATTTGGTGACATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTA

Table 1

TGTTCTAACATGATTATATTCATGGTGTACATAGGCCTCAATTTTTTACAGAAAGATT  
TTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATTTTATAAGCAGAGAACACA  
GCCTGATAACTTAGTCAAGGATATACTGTCTGTCTCACTACTTTGGACTTATATGGCTTC  
AGATTAAGTCATCCAAGAAACATACAT

Sequence 817

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACATGTAATAGACACTA  
TGCTACAGCAAAAGCTTTTCTTATTGTCTTTAAAAATTTTCTGGGTGCATAAAACTATGT  
GGGTAACCTTTTCCCAATTTTTAACTTTTACATTACAAGTCATTTTCAGAGTAAAAAGTC  
ATTTAACAAAGGCAGATAGAAAGGCCTCAAATCCNTGAGGACCAAAAATCCCAACACATT  
TTCAAAAGGGAGAAAAATTTCTTTAACTTCATGGGAAAAGTATTTTAAACATAATAGAGA  
GGCTTTATGCAGTCTTTGACAAGATGATACTTTTGAATAGACAAGGAAGAGGAAAATA  
TTTCATATTATAA

Sequence 818

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNNATTTTTT  
TTTTTTTTTTTTTTTTCNNTTTNNATTTTGGACTTTTTTTTTTTTTTTTTTNNAAAAAA  
ANTTAANTTTTTNAANNNTNNTTTTTTTTTTTTTTTTTTNAATNTTTNTNNTTTTATTA  
ACAAANGAAAAANTNACTTTTTTNTCCAAANANNCGGCCTGNAAAAACNTAAAAACAAT  
GCNNGGATGGANTCAAANTAAAAATTTTTTCTACGGAAAAANAACCTTTTTTGGT  
TTNTTTTTTAACAAAANNTAGNAAAATTTCNNTTNTTTTTAAAAAGNTAAAATNGNTTTT  
TTTTTAAA

Sequence 819

CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGAATAGCTATTGGTCTTCAAGTGGGT  
TAGATTGGTGACATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATT  
ATGTTCTAACATGATTATATTCATGGTGTACATAGGCCTCAATTTTTTACAGAAAGAT  
TTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATTTTATAAGCAGAGAACAC  
AGCCTGATAACTTAGTCAAGGATATACTGTCTGTCTCACTACTTTGGACTTATATGGCTT  
CAGATTAAGTCATCCAAGAAACATACATACATTCTAAATGGTATATATTGGGAATATAG  
CCCCTTTAAAGAAATCAGGTCAGAAATGCAATAACAATTAGACTAGACTGTTGCCCGTGT  
TAGGAGAATGTGTGGGTCATCCTAGTTACTAATTACTCTCACTCAAGATGGAGATGTTGT  
CCAGTTTAAACATAGTCTTAAAGTTTTCTTAAACCCAAATAATTTATGA

Sequence 820

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGAAATTAGTTCCAACCTACTGCTGGTGATAAAC  
TCACCATCTACCTTCACTTGTTTTCTCTTAATTTCTCCAAGAAAGTAATCAGGTGAATAAG  
AATCATCATCAGATAATATTCTCCAAGATTCTTTAAGAAATTAATTTTTATCTACTCTTA  
AATGATTGCACAATTATAGGATAGAAATTACTATCTTGTGCTCTAATTCAAATTGCTCTT  
AATGATCCTAGAGAGAAATGAATTACTAGAGATAAAAGATAAATTTGCTGTGGTTTGGC  
ATCTTTGTTCTTTCTTAAACTTAAACA

Sequence 821

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGAACCAGACCTTACTTAAGCCCACCAAAGG  
CAAGGTTTGGGCCTGCCACAGCGGATTTCAAAAAGACAAAGCAATGCAAGCCACGTGTTT  
AAAATGCCCTAAGTGGCTATTCAGGTAATATATAAAGTAAGACCAGGCTAATTAGTATA  
CAATGGGGTAAACCAGAGAGCAGAAAGCCCTTCTTTAAATGAGCCTACCACTGCTTGGC  
CTCAGTGTGAATTTAGACCCCATCTTCTGATATTTTCAAGGAGAAAGTAAAAATCTAGATTT  
TTATCTAAAAATCTTTTTAATTTTTAAACAGTCACCTGATTT

Sequence 822

CCCTTGAGCGGCCCGCCCGGGCAGGTACAGAGCATCTTAAGGTTGGAAGGACTCTTAGAGA  
CCATAGTCCAGCCTCCCACTTGATACTGAAACACGTTTGTGAATTCATGGCCGATGTCTA  
ACTTCCCTCACCACCTTTCCGATATGGACAGTTCTCATGCCCAGAAGCAAAACCTTCTTT  
ATTGTGCCTGTCTCCTTCTGACTGTGCATATAATCAGCATCTTTCCCACTAAGTGAA  
GGGCCAGACTCGAGCACAGGAGCACAGACCCCTTAAACTCACGAGGGGCTGCATTAC  
ACCATCAGCAGGGAGATTACACTTGTGTCATTT

Sequence 823

CCCTTAGCGGCCCGCCCGGGCAGGTACCAAGACTTTAGAGGGCAAAGAACAGAGGATTCTT  
GAGAAAGGGGACTTGAAGGTGAAGAGATAAAGGCTGGTGCTTCCAGGAGCGTGGGTCTCC  
TACGTTTGTGTTCTGGGAAGAATCTTGGACTCAGGCGTGGCAGCTGGATCGCTGGGT  
CCTTAGGCTTCTCCAGGCAATGTAGTTGCCCTTTCTCTCCCGGTACATAGTAAGTG



Table 1

TATGATAGATGTTTGATTTGTAAATTACAAATATAAATTATCACCCCCATTTCATTAT  
TTTCTTGATATATCAAATGTGTTG

Sequence 824

CCCTTAGCGTGGTCGCGGCCGAGGTACCCCCATTATAGTAGGGAGACTGAATCTTCAAAG  
TTACAGGGTGAATCAATGATAATGATCTTTCAGCTTTCTGGAGTTAAAAAGCATCAAAA  
TTGGGAGATATTAGATGATGACATCTAAGTATTTAAATAAGGAGATATTAAATGATGACT  
CCTAGAAATGAACCTGAATAAGGACTACCGCAATGTGTGTGGTGTGGGAAAGGACAGTTC  
TTTTAATGGCTGGCTGACCCAGCCTCAATTTTCTTGCAGCTTCGCCGACACGAGGTGACC  
ATCTGCAATTACGAAGCATCTGCCAACCAGCAGACCATA

Sequence 825

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCTCATGGCTTTTTGGTCCAGCANTGAGGGC  
ATTGGTGAGATCAGTGGGTAACTGTGCAAGCTTTCTTTTATCATTAGGAAATGTGAAAC  
GTNANGACAAATTTTGAGTTTTAAAGGACAAAAAGTTGAAAGAAAAGGCACAGTTAAC  
AAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGAGAGAGGAATGCTCTTGA  
AAGGTGGTCTGTGGATCTGTCTGAATAG. AAGAGCACAGTNAGTATGCATTGCCGGAGAA  
AACGTCCTTGAAGCTGCTTGTCTCATGTGTATGATGTG

Sequence 826

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACA  
TTGTGATACAGGAACTGTTTCCAGAGCTCAATAAGGTACGCGGGAAAGTCAACTCAGTTA  
CCTCTGTTTGGTGTGTGTATCACTTGCAGATGCTGTCTACCACCTTTTCAGTGACATCCT  
AGAAGCTTCTCTATTACCACAGNAACTGGCTAACTANANATGATCTTCCCTAATTTTCA  
TGAGCATCTTTTTCTGATATAAACCAGGGAGGGAAAAAACAAGTTCCTTCACTTTGA  
AGGGAATATTC

Sequence 827

CCCTTAGCGTGGTCGCGGCCGAGGTACATATATGAAAAGCCAACATTCTAAAGTAGAGGT  
TCACTTAATTTTTTTTTTTCAAGAGAGGCTTCTTGGTAGTTTCATCACACAGTGGTTT  
TATTAGGGGATGTAAGGATTACAGAAACATCGTATTTTTTAACATATAGTATTTTTTGA  
TATGATTTGAATTAATATAGAAAAGTGCATTTTTTCCAGTTTTTTAGGGAAAAGGAGAT  
ACTTCACAGGAGGATAAAAAGGAACAAGAGGGGAAGGGGAAATAAAAATTCAGAAAAGA  
TGAAAAATTGTTGATGTAAGATGGAGGCACATTTT

Sequence 828

CCCTTAGCGTGGTCGCGGCCGAGGTACAAACAAGCTTTGTTAACTAACCCTTGCCATCC  
TGGCTACTTTACCCAATTAACCACCCTAGCCCAGGACGTTTTGCTTTATCACATGTTTAC  
AGTTTGCTATTCTTTGTTCAATCTTGTAACTGACTGCAACTGCTTCTGTGGTCTCTGTT  
TCTTTATGAAGTTTCCAGGCCATACAAAACCTTGTTAGCCTATCTTCTGTCAAGTTAA  
TTGTGGAACCTCAGCCAGGCCCTTAAGAGGATGGAGGAGAGTTTTTCCACAGCAGTTCTG  
AATGGGATGAAGTGAAAAATAAATCTCCCCATTGCCACTACACCACCTCCTGATGAGTC  
TTGCAGCAGAAATACCGTTTAACTGTTTCTGCTTTTATTTTTTCTGATTATCATCCAGT  
TTTATATATTTTATATCTGGGGGCTTTGATAATTATATATACATACTTTTTTGAAATTAT  
TTACTTATCTTTACATTGAAAAGGAACCTTGCTTTGTAATCTAAATCCCTTTNCCCTC  
TACATTTTTTTT

Sequence 829

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCACAAGCAATAACAGATTCATAGATCAGTT  
GACATTGGCTGGTCTCCAGGACAGGAATGTGGCCAAAAGGGTGCTTTGTATAGACGCGGG  
GCACTGAATCTGTGTCTCCCCTGTTACCTACTTTTGCCAGTGAAATTTAAGTTTTAAAT  
ACTTTACAGAAATGATTTTTACTACTGCAAGTTTTTGGTCTTTAAATGTCAAGTAGCATC  
TCTCTCTTCTCTCTGTCTCTTCTGTTTCTCTCTCCAGTTTTTTTTTTTTTTTAAATTT  
CCATATGGGCTAAAGAATCCAAATATTTAAAAATCTGNCTCTCTTTCTTCTCTCATAA  
AGTGAATTATTCCTCTTTTTTGTATGTAAGTGTATATATTCTTAGTTTTTCTTGAAA  
TCATTGTAATGCTAACTTTGTTGTTCAAATATCTTGGTGATTGCTTCATTATCTCTTCA  
ACAAAAAAAACCTTTAATT

Sequence 830

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAGCCATTGAATAAGCCTCTTCCTTTTTTTT  
GCTCAAACATTCCACATCCTTGTGGATTCCCCTGCATTGTTTGTATATAACATTTGA  
TATTTGTTGTAGCTTGATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCTCCA  
GTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTATCTAAATTTCTAT

Table 1

TGAAGCTTTTTGGATTATGAGTATGCTGACTTTTCACGATTGGCTGGTGCATGTTTAGAC  
TTAAATGTCATATCCTTCATGTCTCAAAGCCAAAATAGTAACATCTCATCTCAGAACAGA  
GCTGTGACCACATGCCAATATATGTGTCAAAAGTCTACATATGTTACATTCCTTGGGAAG  
TCTCCTTAAATGTTTCACA

Sequence 831

CCCTTGAGCGGCCGCCGCGGCGAGGTACGCGGGCTGGAAAACCTGAACGTGAAGTCACCACT  
AGGCAAGCTGCCTGTAATTGAGCTTGCTTGATATGACCAATCAACCTTTGCTTGTTGAA  
GGGTTAGTTATCTAGTTTCTTCTTTTCTTTTGGAAATTTGGTCTTTTAAGGTCTTGAT  
AATCTTTCTAGTCTAGAGCATGTGAACAGAACAGAAAGGAAATCAGGACTCAGTTTACTT  
AATTTAAGCAAGCATTGGTTGCTGCAGTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACTC  
TCTTATTAGCATGGATGCTTAAGAACTTCANGGGTTTGGAGGTCAGCTTGAACAGCTGTT  
TTTTGCACTCTCCCTGGTTTTTAGTAGCCTGAGTCTATAAAAAGAATACCACTCGGGTAA  
AAGCTAATATCCTTTAANCCATTTTTTACCTTGATACCATTGCATTAAGAAAGNATTATT  
CAATGGGCTTTTCAATTTGCTTTTTTGGGCCTTTTTGGCTTNAANTCAAAGTGTNAAGAAAG  
AATTGCCATGGNTTTAAAAAATTTTTTTTTT

Sequence 832

CCCTTAGCGTGGTCGCGGCCCGANGTACCCTAGGCAGGGACAGTCAAGAAAACCTTCATGG  
ATCTGTAGTGTAAGCTAGGGAGAAAGAGGAAGAGATGCCTGTTTGAATTTCTGTAACCTA  
GCGTATCTCCAAGATAATGCATGAACAGCCAGTAAAGATGAACGCAGATTATTGATGGAA  
AGAACACACATGGAGAAGAGAAAAAGCAAGTCCACAGAGCTTTTAAACATACACTCCCTCA  
CCCCTACCCCCAGCTTAGAAGGGCAGGAACCTGCTGTCCAAAACAGGAAATATAGGAAAT  
CCAGCTTGAGAAACTATCCACT

Sequence 833

CCCTTTCGAGCGGCCGCCGCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGGGNCA  
AGTAGAAATCAAACAGTCCTAATGGAGTTCATATCTTATGGCATTATAGAAAGGCTTAGT  
TATGAAACTATCTTGTTATTGTTACTATTACATTGCCTGGCTCATATATATAAAGCATT  
AGAGAGACTGTTCCAATAACTCTCATTAAATGGTGAAAAAATTAATATTGGTTTAGAT  
ACTTACCTAAATATTACTAGTTAAATTCAAAGTAAATGAGTCTGTATCTTTAAACTACT  
TGGCAGTAATAATTTTTAAAGTAGATTTTTATTGCTTTTCTTGAACCTAAGTGTTC  
TACAACACAGGTAGTTTTATTTGTGCTGGAATTAAGGAGTGAGACACATTTGTAAGT  
TTCACAATCAACGCCTGTCCATTTTAAATCTCACAAGTTTTTCTTCATGATTAAACACA  
ATTCACAAAATAAGAAATGGTATTTGGTCATTCTCTGAGTTCAATCTGTGCTCTAGTAA  
TATAACTTGNAGAGAAAAAGTAAAAAGGNCAAGAGTCTAATTCATTTTCAGTTTTTAA

Sequence 834

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGGNTTTT  
TTATCTGACCACTTCCAGGAACAAAGCCAGGGCTCTCTGGGCACCTGAGTATCCATTCTC  
TTTGTATCATCCATTCCATGTCCAGAACACATTCACATCCATGCTTATAGTTTCTCATTG  
CCTGAAGCCTGCTGGGTGGGGCATAGTATGAATACTTGCCCTCATCATCCCCATTTTACA  
GATGCATAAACAGAGGCCAGTCAGTATGCCTGCAGACTGTGGATAGAGCCCCAAGCCTCA  
GGTTAGGCAGCTTGCATCCAGCTGTGAGTCCCAGCTAGGGGAAGTGAAGTCAAGCTCCATC  
ACTCCGTGTCTCGGTTTTCTGACCTCTCAGGTGGGTATCATGATGCTGGCTTTGGAGGGT  
AGCTGTGAGTATTAAATTACGCTGATGCAGGGCAGGTGAGCCCCCAAATTGGGGTTTAG  
CTTGCGAGAGTTCTTGGCTTTGCCTAGGAAATAATTCA

Sequence 835

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTA  
ATTTAATGGAAGAAAAGTCCAACCTTAATAACTTTAATGGANAAAGAAAGGAAGCANTATAA  
ATTTGTGGAGACTCCAATCACATGCTCTCACTCTGCTACCCTGGGCCCAAATAAGGGA  
GGAGACACTCANAGCCAGGTGTTTCCCTTGATGGGAATGTGATCAGGNGCGACATGGGCT  
CACAGCTCNCTGAGGCTGGATCTTT

Sequence 836

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTAGCAAAGAGACTTACACATTAGTGAAAAATC  
TAAATCAGCCTTACGTGGGATCTGCCCAAAGTATTATTTGCAAAAGTATCATTTTCAGT  
TTTAACTTTTAGGGGGAGCAGGGTAGGCTGGGGTGACACACACAAATCTAGGCAGGCAGA  
GAGCTTGCTTTCTCAGCTTCTTACCCTTAGTAAGACCACTTTAGTAGGACACTTAAGTA  
TTTCAGTCAGCGGATTTGAATCTGACTTCTTGGATGCATCTGTATCAAAACATACCATTA  
GATGTGTTACAGAACTGAGCAGCATATCATTAGATGTGTTACAGAACTGAGTCCACTTA

Table I.

CAATAATTAATTTAATTTCAATAGCGATCCCCACCATTTATGTCCTAGGCATCTACACAA  
TTGGTCTCTGAGCGAAAACACAGCCTTATCTGCAATAAAAGCCTCTGCTTTGCTTTGGCA  
TGTTTTTACAATCCCGCGCA

Sequence 837

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGCAAAC  
TTAATAGGTTTTCTAGCTTGACAACCTATTCTCTATATTCACNAACATCTCCTGACTTG  
TTCCTTCAGTGGANATACCCTTTTCTAGCCAGAGTTGGCAAAAGTAGCAATAGCATGCAT  
TGGCTTGTGTTGANAGGCCCTGGGTGAGCCTTTGTTGCATAAAGTAGGAGGTCTGTTATTG  
TCTTGGTAGCATATGCCTTCATTATAAGTTTGCCTCTTTGAAAGAATATTTCAAAGACCAA  
CACAAAAGAGAACATTTCCAGATCCAAGAGAGTGTATGTAGAAACAGTGACAAGTTAGAA  
AATCAACTTAGGTATCAGATAGCAGCCACAAAATATGTTCTGAGGAAAAATTCATAGCAA  
TTTATAACAGCTGAAAAAAGAGGGAGGATGCGGGAAGGTAGATTTTGTGAGAACTTACT  
AGACTAAGGATTTATTGCATATTTTTACTAATTAATG

Sequence 838

CCCTTTGAGCGGCCGCCCGGGCAGGTACTACAAAAATAATGAAGCCAGCTAATTACCAT  
CAGGTTACAACCTTTACAAAGAAGTGAAGCAGCAAAAGAGCTGAAGCAGAAATGACATAGGA  
AAACAGCAGCAAAGTCCTTGAGTCCCAACAGTCCACCTCAAAGACAAACATACTAAAGAA  
CAAAGGCCCTAATCCACCTCCTCACCCGCTACTTTTTTTTTTTTTTTTTTTTTTNC  
CAGTTTCTGTTTCAAATCTTTATTATACATCATGGTTGCACAATTTGAGGCTGGTTAAA  
TACAATTGGTTTTCAAATCTCTTTGAATATTTCTGGCTTATTACATGCAAATGACCAT  
GAAAATATTTGGCATTTTAAATCTGAAACTCTGAATAGGCACCTGCATGAAGGAAAAC  
AT

Sequence 839

CCCTTAGCGTGGTCGCGGCCGAGGTACGGACAAGGGGGCGACTGGCATGTGGTTTGTTC  
TGGTCTTGTAGTCGGTTTGAATTTTCTAAGTCAGGGTGGGGTGGGGGGACTGTGCACGA  
GTCATGTGCAGACTGGAACCCATCTCCCCCTCGGTCTGCAAGTTAAACAATTGGGTTGT  
CCTTCTCAGCATCTGCCAATGTCTCTTACTCAATCTTGGATCAAAAGGGCGTTGGAGGAG  
GAGGCTGGGAGGGAATCCAGACAGTCTCCGCCTCTGACATCAGGTCCAGCTGTTAGCA  
TCGTGCTGTGGTCCCTGAACAAGAAGCAAAGTCAGGACTGGTTTGGCCAGGTAGGTGAG  
GATCCAGTGTTGGGTGATTCTGATCCATGCAGCCCTTAGAGGCGACACAGACGTGAAGTG  
GACATCTAGGAAGAAAGAGCCGACTGCCGGGTGACCTGTCTAGTTCACATCCACTCACC  
ATTTCCCTCCTCGTTCCTATTCTTAGAAATAAGACTCTGACGCTCTCTTTTATACAGGCT  
AGTCCCCTATAGGCATGTGATGTTTGAATCCTNCTGACTTTCCTAAGAAGAG  
ATCANACTTAGCAGGGTAGTC

Sequence 840

GTGGTCGCGGCCGAGGTACAAATAAATGTATCTTGGGTAAAGTGCTATAAAGGAAAAGAA  
CAGGTTCAATGGAAGGAAAAATTAGAATTGTTGATACATGAATGGAAGTAAATGACCCGG  
ACTTCCAACCTCTAAATCTCTGTCTCATTTACCTCTTTGTAAATAATCATTGCTATTATG  
TTAAATATCACAACCTACTGTCAATTTCTGTTTACCCACTACATTCTAAGCTTGGTGCTGA  
CATCTTTGATTTATTATATAAAATCTCAAATTAATCTGCCCCGTAGGCTTTCTTATC  
ACTTATTTCAAATGCAAAATAAGGTCCAGGGAAGATAATTATGTNACTTGTTTCATGATT  
GGAGAGCTAATAAGTGTCAGAGATGAATTNAACCAAAGTTTGGTGTGACAAAAGCCTCTG  
GTTTTAAGCAAAAGGGGAAAAAAATTCATTAACTCCAAGGATTATCATCAGGGAGTC  
CAACAGGGTTCCCAATTTGGGAACCTACCTATATTCAATTATCATATGGCAAATGGGTCCC  
CTTTTGTAGATGGAGAAGGGCCAAAAAATTTTTTTTTTTTTTTTTTTTTT

Sequence 841

CCCTTAGCGTGGTCGCGGCCGAGGTACACTTAAAAATGTATGTGCTGTTCTAATGCTACT  
TATTATTATCCCTTCTTTGTAGAATGTATCAACACTAAAAGTGTTAATCCTGACTAT  
AACAAATATTTGTTAACTATTAAGGGGTAAATATACTCTAAGCTTCCAGTTTTCAGTTA  
AAACAAAAATGATTAATATGCCTATACAGAACCTTCTCCAGCACTTGGTAAGTATTTTT  
AAAGTGAAGTCTATTGAGCTGCAACCAGTAACTATTTATGCTTATAATTTTTCTCACG  
ATGGATTTCTGTTCTTTGGTGCATTGGTTGTGTTTATTTTATGTGATCTTTTTAGCTA  
CAAGGTGGGAAAAATGACAGTGGTTAGAAAGATAAGAAAGCACATGAATGTAAAGTAAAT  
ATGTGGAGATTTTTGGCCACTCTGTAACTACTATCTGAAGTAGTTTTAAATATTTAAG

Sequence 842

Table 1

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCGTGATCATAGCTCACTGCAACCTCCAC  
CTCACAGGCTCAAGTGATCCTCCCACCACAGCTTCCAAATAGCTGGGACCACAGGTGCAA  
GCCACCACACTTATTAATGTAGATTTCTTTGTAGATGTAGATTTCTTTACAAAGTGAC  
AGCTTTTCAGAGCTAGTCCTATGTCTGCAGTTTCTCAGAATAACCAGCTCAAAATATGCC  
AGAGAAGTATATTTTGGGGTGGCATATTCTAGTCTCCTCCAAGTCATATTTGGGGTGGT  
GTGTCTGAGCCCCAACAAGATAGGTTTCATTTTGAAAATTGCTCTTCAGTCCCCTG  
TTCATTCTCATAAGCCCAGGAATCACCACCTGTTGATTTCTAGGCATCTTCTTGCTCAN  
GGTAGTTAGATGTTTGGTGGGACTAGAAAATGCAANGGAGGGAGAAAAAGGAAAGGCTTG  
GTGNATGTCAAAGATTTTAA

Sequence 843

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGCCTATTAATTGAT  
TAGGAAAAATAGGTAGACCCTGAGTGAAAGTAGAAAAAGAACCTTCTGGTAAAAATTCTG  
AAAGTAGAAAAAGAACCTTTAGCTTTAAAGGTATGTCTTAATAGAGCAGTGCTAAGACAGG  
TGGTTAGGTATGTGAATGCATGCCACTTAGAAAAAGAAATATGAAGGAGAAGGGACCAAGAA  
GGCAGATACATTGCCCTGATAAAGAAGTCATTTTTCTCTCACCTTTACATAAATATCAN  
GCCACTAAAAATCTAGGAGCACAAATAATGAAAG

Sequence 844

GAGCGGCCGCCCGGCGCAGGTACAAGAGAACGGACGGCACTTACTGAGCCCATCGCAAATG  
TCAGGCTCTGTGCTATACTTACATTATCCCATAATCTTCAAGACCCCTCAAGACCCACACA  
AAGTAACACAAAGCAGGAACTAACTCANATTTACTTGCCAAAGTCACACAGTTAATAC  
ATGGTGGAATCAGGACTCAAAATCANGCCTGTGTGACTCCAAAGTCCAGTGCTCTCTCCA  
CTTTACCAGGTAACCTTCATAATACCGGATTGGAAATCAAACCTGTCACTTTACTTTTCT  
ATGTCCCTGAGTGANTCACAACTTTTCTTCANCCAGCTTTTTTCATT

Sequence 845

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGGAAATTGGTTTGATTGCCATAGGCTAACCT  
TGGACCAATCACTGTGGCCAAATACATGAGGTATCCTTATTGGCTCCTTCTACTAGCAAC  
AGATGGTTTAGAGAACAGTGTATCACAGAGAAATGGGGATCACTATTATAGGCAGATTGA  
ATAATAAATGTTCACTCTACTACTCAATAAATATTTGTTGAACAAATCAAAGCTGATCCC  
TTTTTTCAAATTTTAAATGTGACTCTTAGGGGATGGTGGATCCAGGAGAGAAGATTAGT  
GCCACACTGAAAAGAGAATTTGGTGAGGAAGCTCTCAACTCCTTACAGAAAACCAAGTGCT  
GAGAAGAGAGAAATAGAGGAAAAGTTGCACAACTCTTCAGCCAAGACCACCTAGTGATA  
TATAAGGGATATGTT

Sequence 846

CCCTTCGAGCGGCACGCCCCGGGCAGGTACTTTATTTATTTATTTATTTATTTATTTGTTTT  
ACTATTTCAAAAACAAAATGTAGCTTTCTTAAATTTGTAGTTAAATGTTTTCTTTGT  
TTTCCCAATAAAATGTAAAGTTTAAATATGTGATGGCTAAACTCCTAGGGGGATAAGGAGG  
CGCTAGGAGAAATAGGCAGGTTGGAAGGGTAGTCGGGACTTGTCCAGATTCTTGTGTGG  
TAGTCTGGGTAGTCTGTATATTTACCATATGGGCTACAAGACACACACACACACACACAC  
ACACACTCACACACACACACACACACACACACACCTTGTGAGCATTTATTAATTCGCAG  
TTGATGGTGCATAGTTTGGGGAGTGGGTAAAGGATATGTTACTTTTGT

Sequence 847

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGTGTGTGTGTGTGTGTGTGTGTGTGTGT  
GTGTTTTAAGTTTANCCTTTTGTTTTGTTTTGGTTGGCAGTAACCCNATTTTAAATGA  
CTAAGCTTTTAAAAATACAGTACTGATCATTCTATTTCCCCCTNTATTGATCCCCACCTC  
CAAATATCTCATCAACAACCGACTAATCACCACCCAACAATGACTAATCAAATA

Sequence 848

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTGTTATGCTTGTGCCTGTGTGAAATTCTAC  
AGTGCTGAAAATCTCATGCACTCTAGCTATGAATGCAGGTCTACTTGAAGCAAACTCTT  
CAATCTAATTGTTTTCTCAATCTTTGTAAACCAGTTTTAAGAGTCACCAGAAATCTGTAG  
TTTAAGGCACCAGATACATTTCTTGGCTGAGCCTTGTAGGACCAATATGCTGGACCAATT  
CGGTAAAATACACCATAAATTATGACTGCTTTATCTGAATGCATGGGACACTTGCTACGA  
TGGCGGGAATTATTACCAGGAGTTTAGGAGCCAGACATGGGTTCTGTATTTTTCATACAT  
TGGTGATCAATTCAAATCTTTTCTTTGCANCCAGGTTTGGTCAGTCTGGCCAGGAGT  
GCAGATTATGACAAAAACAAAGCTAAAAGACCTGAGCCATTAAAGGTTACAGTCTCAATA  
CCACCGAGTTAAACAACCTATTTAAATGCAAGACTATTGATTGGAAT

Sequence 849

Table 1

CCCTTAGCGTGGTCGCGGCCGAGGTGCGCCGAGGTACAAAAGTTCTGAAATAACACTATA  
GGCTTAAGGAATAAGGGACCAGAAGTAGCCTGGTAGCCAGTGATTTCTGGCTTTATACA  
TTCTTAGGAAAAAACTTTATAGATGTATTTAAGTAGAATTAAGGTTTACACAAATG  
ATTTTTGAGAGAGAGAGTCCCTAGGACCTAAACATTTCGTTCTACGGAGATAGGGTCAAC  
ACGCAGATATTTATTTAGCAGCATGGTCTGCAGAAGTAGGAGGAGGTGACCAGATGTGAT  
GGATTATGCCTGTAATTCCAC

Sequence 850

CCCTTAGCGTGGTCGCGGCCGAGGTNCCACCTAACAAATTGGAGGAAATGAAAAGACGAA  
TCAACAACATTTTGGAGAAAAATTTATTCTACTTCTAGAATTTCACTACTACAAGTGCT  
TAGTTCCTGGTTTGGTANATGAAGTGAAATCAAAATTGGATATTTGGAACATTAAATATG  
GGAGCAGAGAATCTGTGGAATTATTGCTGGANGACTGGCATAAATTTATTGAAGAAAAAG  
AATTCCTAGCTCGACTTGATACTTCTTTTCAAAAATGTGGAGAAATTTATAANAATTTGG  
CTGGAGAATGTCAGAATATTAATAAACAGTATATGATGGTGAAATCTGATGTTTGTATGT  
ATAGAAAAATATATATAATGTGAAGTCCACTCTACAAAAGTGCTGGCATGTTGGGCTA  
CTTATGTGGAAAACCTTCGCTTACTAAGGGCTTGCTTTGAGGAGACNANGGAAGGGAGAA  
ATTA

Sequence 851

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTATATTCTATGCAAAATTTATAAAATAATC  
CTTGAACATGAAAACTCATCTTAAATACACGAATTAAGTAAGCATGCAATACAGACAC  
TTGCAGGATGCCTGGCCTCTGGGAAGTCTCCTGTCTCTGTGTGAATGTAGAAGTGAGGC  
TCAACTCTCTCTTAGGAAAATTTCCCTTCCCACTGCCCATCCATTTCTGCTGACTCAA  
CAATCCCACAGAGGAAATGGGAATAGTATCATCACTAGCAGTCCCTCCCATGCCAACAG  
ATTTGGGTCTTATCTAAGTGTTTCTGCAGCCCGGTCTTCCCTTCTGACTTCCCGTAT  
TGGCTCGTTAAATGATTAGCTGGCAATACAGGTATGTTTGGACTGCTATTGGTGGTGAA  
GTTTAACTCTTAAGTGTTTTGTGAAAGGAAATATTCCTAAAAGCTTTGGTGTCACT  
TAAAAAAAACAATATATGATTGAAAGAAATTTGAGATATTTTGTTC

Sequence 852

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGCAGATGATGGCACAGTGACAGCTGGGAGGG  
ATGGGATGTGCTTGCTTCATGTCCCCTCCCCTCTGCCTGCTCAACCCTACACAGTCTGT  
CTGGTGACCGTGCCAAAGTCTTCTGCCTTGACAGAGAGGCCTNTCTCGTGAACATGG  
GCCTCAGGAAAGACAGCCTGAATGCCACTACCCAGGCTTGTTGGAAGGTTCTGCATCAGT  
GTGGCATTGTTGCGATAGCCCTCAGTTGATGCTTGTGTTGTGGTGTGGGAGGCAGGAACT  
ACTTTAGGAGGGTGAGGGGTGAGAATGAAAAGAGGACTTGCCCTGAGCCACCCAGCTGT  
GGTCACCTGATGGC

Sequence 853

GGNCGGGCCGAGGTACGCACATACATACACTAACGCTCAGCATAACTTTCCATTACA  
CTTAGACAATGACTTGTGGAGGAAAAACAAGGATAAACAAGAGTCTCAAGAACTTAAGAA  
AAACATCAGAGTTGATTATTTAGCACTTTCTCAGGATTCTAAGGCAATANGCCTAANTTC  
AAAACGTGAAATGTTCTCTATTTCCATTAGTCATTAAATGAGATAAATGACAAGCTAT  
TGCTGCTTCTCCATTCTGTTTTCAAAGAACATTACAAAAATAAACAGTGNGTTCTCTAA  
CAGTTCTAAAAACAGNTTG

Sequence 854

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAAGCAAGGCAGTTTAGGGACAAAGGGCATG  
AGCTTAGAGTCAGATTTCTAGGTTCCAGATCCAAGCATNACTACTTATTTTCTTAAGAA  
CTTGGGCATCTGTAAACCAGGGATAATATCTTCTCAAAGGGCTGNTGNGAAGATTCAAC  
AAGGTAATACATAT

Sequence 855

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGGACTACCCACCACCATGCCCGGCTCATT  
TTGATTTTTAGTAGAGACAGGGTTTACCATTGTTGGCCAGGCTAGTCTCAAACTCCTGA  
CCTCAAGTGATCCACCTGCCTTGGCCTTCAAAGTGCTGGGATTATAGGTATGAGCCACC  
GCACCCAGCCTTCAATTTTTTTAATTCTGATAGAGCACCATCTACTACATGCTTAATA  
TTATCCATAAACAGACATGTCTGAGCACAGAAGATCATGTTAATGAAAGATTATTGAAAG  
GTACCTGCCCGGGCGGCCGCTCGAAAG

Sequence 856

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGAAAAAGCATAATGAATACAACAACCTAGCA  
TCAAACTCAGTGTATATAAGAATGGCTAAGTGACCATTAGTCATGTGAAAAGCTTAACAA

Table 1

CTATTAAGCTCTTATTTTCTTACTAAAAACAATTTTAAGTTCTTTCAAGGCTATAGTTA  
CGCTTTACATAAGAGGCCCTATTACCCACTAATTCCTAAAATTTCTACCTACTTAAAATT  
TCTTTAGACATTTCCAAAGGTTAGTAAAGGAAGACATAAGATATGCTTACTTAAATCCTT  
GCTGGTTCCATGCCTGGCCATACAT

Sequence 857

CCCTTGAGCGGCCGCCGGGCAGGTACCATGAAATAGGACCTTCTACGGTTTAAAATAAA  
TGTTTGTTTTTTCTAGCCCTGTAGGTCAATGAATGCCTGACTCCAGTGACAGACCATAA  
TTATCCAAATCTCTCATTTATGAATATGGAATATAAATATGCTAAATTGATTATGTCATG  
AATAGACTTCTTTTTGCATAACAATGTTTGGAGTTTCTCACCTTTCTCCTNNCCTNTT  
TTTCT

Sequence 858

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGTGAGTTCTTCTCCAGACCATCAATATAG  
ATTGGATTTATACACTGATCGCTGTGTCTCTCCTTCGTAATAACCTTACCCCATGTTGCA  
ACAAACATGGACTTGTACAACATCCAGAGTGAAATCTGAATGTGGTCAAGAAAGTTCA  
GAAACAATAAGAGTGATGCAATGCATACCACAACTCAGGCCCAGTGCAAAAGTCAGGCC  
CAGCCCTTCCCATATAAGGGACTTGGTCATTTGAAAAATCAAAACCCAAAAGGAACAAT  
ATAGGGACCTGTAATCAATTAGAATATTC

Sequence 859

CCCTTTGAGCGGCCGCCGGGCAGGTACTGGCTGGACTTGAGGTGGTTTAAAGTTGGCAG  
CTACATCGAAGGACTTCTGAAAAGCTCAAGTGACAGTTACACCTTTGCACTCTCCACATT  
CAGCTGGCCTTTTCCCTCAAAACATGGATAATCTTCAAACCTCCCTGAACAGGTGGAAT  
GCGTCTTCTCTAAGCCAAGTTCTCAGTCCACATTAGTCCATACTTGGCTACAGAATTG  
ACGTTTGTGGCCACAATCCTACTAGAAATGACCTTTGGGTAATATCCTTATCTTGTGAT  
CTAGTTAGGGTCAAGTAA

Sequence 860

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATGCAGAAGGAAAGCAATTGCAGATGGAAA  
AAGCTGAGATGCTATAAGGAATTACGGATTTTATAAAGAGATCACCATGTGGGTGAATGT  
AAATATAGATGAACAATGAAGCATAAACAATTTTAAATATCTTACAGGCTAAAATATTT  
AGAAATGAAAGACAACAATAGCATATAAGTTAAGAAAGGGGTAAAAAGAATCAAGAGCA  
TTCTAAGGTCTTATATTACCTGGAAGGAGAGTAAAGATAATGACTATCTTCAGGCTGAT  
AAATTAACAATGTATGCTGCCATTC

Sequence 861

CCCTTTGCGGCCGCCGGGCAGGTACCAGCACAGCAATTGCTGTATGTTTGTTTTTAATT  
ATCGGTTTTTCACTTGGAGGGGCCAGTTCTCTATATTTCAATCTATTTTCTATATCAGAAA  
TGAGCAGGCATTTTAAAAATGGCTTTCATTGATGGAGAGGTAAAAGTGAAATGGCTTGG  
TTGATTTTATATTATAAAAGGCCATTTCCCAAATCTAGAATTTATTACTAAAAATCAAGT  
TTGCATTGAGGGGAGGAGTATGATTTGCTCAAGCTTACTTTTTTATAGGTGGGGTTTTT  
ATATTTTCAATGTGATTACTCAC

Sequence 862

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTCCATGCTGGGTCATACCTGAGTGCCAGT  
GGAATATAATTTGGAAGGAATAACGTTGTTGAAAAACATCCTCTACAGACAATATGAACA  
ATGCCCTAGTCATCTATTGATTATGACAATATACTCTTGAACAAATTGTTTTCGGTTCTG  
GTTTCTGTGGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 863

CCCTTTGAGCGGCCGCCGGGCAGGTACTACACCTCACCACTGGGTGTCTCTCAGACG  
TTACCAAGAGACAGAGTAAACCCATGCTTTCTCCTATCCAAACCAGTCTCTCCTGTTCCC  
TGCTTTGTCCAAACCCAGTTGCAGGAATTTATGTCTTAAAGTAAACCATCGTATGATAAT  
TTCCCCTGAAAATGTGCCTATTAAAAAAAATAGGATATGATGGGAGGCAGACATAAACA  
TTCTGGTCAATTTATTGGTGTATTATTTTTCAGTTAATAAACTGCCCTTTCGCTATG  
CTTCACTTCCACGTGTTTAGGCAG

Sequence 864

CCCTTTGAGCGGCCGCCGGGCAGGTACATGCTCTAAATGTAAGGATTCATTTATGAG  
AGAGTGAACATACTGCTTGTAGCTAAAACATTACAGGAGACCTTAAAAAGGGGTATAATT  
GGTCCCTATGTGAAATGAACCTGACATATTTTATAAATTATTTGTGCATGACTATCTTT  
TGNTGATAGCACTAGGAAGACTTNTAACGTTTAAATACTTTATTTGCCCTCAATTACTAT  
TTAAAAGTCTATAATTTTAAGTAATTTTACAGCTGACAAAGATAAATATTTTTTCTTT

Table 1

TAGTTTTCTAATGTCTTGGAGGTAAAGTGGAATGGCCTGTTTTGACACATAATTTCTA  
GAACTTGGAGTTAATTTGATCAGTTCCATTTGGGT

Sequence 865

CCCTTAGCGTGGTCGCGGCCCGAGGTACATGTTACTGGGTATTAAATGCGTTCATAGTAG  
GGTATTAAATCAGCAAGGTCCCCATCCAGAAAAATGTGCAGTTTGTCCAATGGGAAAGA  
TGCANAGACAGTTTCAGTTAATATACTAAGTGCTAAAGATTGGGATGTGCACAAGAAGCT  
GGAGGTAAAAATCTGGAAAACTGAACGTGAAGTCACCACTAGGCAAGCTGCCTGTAATT  
GAGCTTGCTTGATATGACCAATCAACCTTTGCTTGTTGAAGGATTAGTTATCTAGTTTC  
CTCCTTTTCTTTTTTGAATTTGGTCTTTTAAGGTCTTGATAATCTTTCTAGTCTAGAGC  
ATGTGAACAGAACANAAGGAAAAATCAGGACTCAGTTTACTTAATTTAAAGCAAGCCATTG  
GTTGCTGCAGTTCAGGGGAGGTAAAGTTGCTGGGCTCCACTCTCTTATTAGCATGGATG  
CTTAAAGAACTTCAGGG

Sequence 866

TAGATATAGGATAGTGATACNTTGAANAGGACTATGAAAAGGGACAGTAGGGCTTAGTG  
AAAAAGTTTTTAACGANNCTACNGTTATTGAATNAAANTACATATAGCGNGATTCTTATT  
ACTTGAAATTAGGAGGAGAAAGAATTTTTGAGGTAAATTNGAAAAGACATAAAATAGAC  
TA

Sequence 867

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCCGGGCATGCAGCCAGGCTAGACCGGCTC  
A

GCCCCACTTCAAGACAAAATCTCAGCACCCATTACTCACCATACATATTTATGCAGTGAG  
CTGCATCATGACCAGCTATCATCTTACCTCATAGTTTTTTCTCTGGTAGAGATAATTAA  
CTTATTATGCTTGATCAGTTAACTCTTGCTTAGAAATTTAAAAATATTTTTAAGTGACA  
AATCTTTGTAGAAATTTTTGAAAAATAGAAATATTTGAAGTAGAAAGTTAAATCACCCA  
CAATCTGCTTTGTAAACATTTGAATATGTTGCTTCCATGATATATAACAAAAATTTGT  
CTGGGTATTGCATATGTCGCCCTTTCCTTCTTAATATTGCATTTTGAGCATTTAACCNAA  
CACTAAATATTCTCCCTAGAACATATGGATTTTGAATAATTTAGCTAATTATAAAAAATA  
CTTCCCTAATGGTCCCTTGGGCTCTTTAAGGTTTTGCTGGTATATGTTACAGGGGATGAA  
CCACTTAAGGCTCTTTGACCACCATACTGNCCATACTGCCATACTGGCATACTGNTTTT  
AAAAAAA

Sequence 868

CCAGTGTGATGGATATCTGCANTTTTCGCCCTTTCGAGCGGTTNTTNGGGCAGNTTNTT  
CNNCCTTCTGTGNTATTTGTGGCGGNATGTTGNATACTCTTACCATGGGGATGAAGAC  
ACAAGAATTATGATAGTTCATTGAAAAAGGTTGAGAATTCAGAACTTGTCAGTTTCCACC  
AATAATGGCAAAGATACAATATGACAAAGTTCAGTTGCTTAAATGAATCTAGGAATGAAG  
AATCTAGAAATTATAATGGAGAGGTGATTAGGAGTTTAAATGGTTTAT

Sequence 869

CCCTTAGCGTGGTCGCGGCCCGAGGTACATTAATTAAGCATACTAAAGAAAAAAGGAATG  
TTTTCTTAGCAATTTAAGAACTTGCTTAAAAAGAAAAAAGATCAACCACTCCCTCTAGT  
GACAAAAATTAGCCACAAGATGAAATTCAGTTAAATTCCAAACACTGTGGAGATGGAAA  
GCCTTGATTTTAGATGAAAGGATTTATGGCTGGAATTAAGAAATTAAGGAGCAGAAA  
AGTGGGTGAATGGAAACATTTACTTTTTGTTTTAAGTGTTAATAGCCACTTTTGTCC  
AGTCTGNATCTCCTTTCATTAGTCTTTATATATATATATACNCACACACCCCNACGTAT  
GTTATATACATATAATGGTTTATGTATTATATATGNGGATATATACACCTTATATGGT  
TATATATATGGGTTTTTTTCNNGAGCNTTATATCATGGTGAAATGAGTTCAATGGACCC  
TGGCCCGGGCNGGCCGNTCGAAAAGGGCNAAATTCACCACACTGGCCGGGCGNTTACTA  
GTNGGATCCCCAGCCTCGGGNNCCAANNCTGGGCGTAANCATNGGGNAATAGGTGTTTNC  
CTGGGNGGAAAAATTGGTNTNCGGTTAAAAATTCNCCCCAACATTCCANNCCGGGAAGCC  
CTTAAAGGGGGTAAAAGCCCCCTNNGGGGGGGGCCCTTANTTGGGNGNGGGGNGCCCTT  
AACCTNCCNNNTTTTAAAAATTTTGGCCNNNTTTTGGCCCGCCCTTTTANAAAAAT  
TTGGGGCCCCCCCCNCCNTTTTT

Sequence 870

CCCTTGGCCCGCCCGGGCAGGTACTAATATTCTTCAACAGAATGCAATAAAATACGAGCT  
ACATAAATCCAACTTGGTTCAAAGGTAGCTATGTTTTTTAAAAAGGTTATTATAACA  
GACAAAGCAAATGCAAACCTTATCCTTCCAAACCTGATAATTGGTAATACCAAATAACTG  
GTATCTAATAAATATACAAATCAAGAGAATACCTTGCTAGCTAAATTAACAAAAA

Table 1

AAAAACT

Sequence 871

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGGCTTCTTTGGTGATAGTTTCTACTCTCTT  
TAAATACTGTTCTGTTATTTTTGAAATCTGATCAAGAATTGACACAATAAATCTCTTTGA  
TATTTATACTTATGCCTACTTTTAACTTTTAGGAAAACTTTATGAATTGGAATATTCTA  
AAATCCTGAAATAATTTGGAATATTCTAAAATTCTGAAGAGAATATGAACGGATTGTTGG  
AATGGAACTTTTACCCGATTCCCTCAGACTAGAGTGTTTCATACGACATTTTGCCAAGAAG  
TTCCTATAGAGGCAATATCACTTTTAGGATGGATGGGTCTAAAAGGATCATATTTAAGTT  
TCTGGTTATTCATGGNTGCACTCACTTTAGAGGATGTGTTCTATTAGGGTTGCTGCTAC  
TATTTGTCTCTCCTAAATAACCAGTATGGAATTATAGAAAGAAAGGTGGGAGAATAGTC  
CGTGTGATCTNCTGGGCAGCATTAAAGCCTGTTCCATCCAGCCCCTGACTATTTTGGTCT  
TTCTTTGCCTTTGAAGGCCCAGAAGACATTTNCATTCTTCGAAGNTTTTATGGTCTATA  
CCCCTCTCTTGCCTNCATATNTTTTGAAGNGGGGGCCAGAATTTTTTGGATTCCCNT  
TAAAAATGGACCTTGGGGTNTTTTANCCATAANCCCTGTGAAAATTCCAANGGGGGGGGGG  
CCCCTTNTNCCCCCCCCGGGGGGCCCCGGGGGGNCCCCNCNTTTTTTTGNAAAAAAAANN  
GGGGGGGNCCCCCAAAAAA

Sequence 872

CCCTTTGAGNNGCCGCCCGGGCAGGTACAGTTCTGTGTTTTTCAATTGATACATACTAC  
TTATGTAAGAAAAATGAGTAAAAATAGAGGGCCACACAGGCAACAGCCATTAGGTTATGC  
ACAGAGAAGGAAAAACCTCAGAGGTTGTGCTGCCATCTTCTGGAACAAACAAGAATCTAC  
AGGAACAGAAACATGATGGAAGAACAAGGGTTAGTTACTGCAACGAAAAACATGGCAGG  
AAAAAAACCATTTTGAAGCCAAGCTTTTGATTTAACCATGAATGAAAACAAATGGGAAA  
ACAACAACNACNAAAAACAAAAACAAAAACAAAAACAAGAATGACCAAATACAGAAATTAT  
TA

Sequence 873

CCCTTAGCGTGGTCGCGNTCGAGGTACTTGTTAAAATTCAGATTCTCGGACCCACCCTAG  
ACCTACTGGATCCAAATCTCTGCAGACATGGCCTGGACATCTTCATTATAACAAGCTTCC  
ACATAGATTATTTTGTAGTGGCCATGTCTTGCTTTGCTTCTGTGGAACACTACTCTCCAT  
CTTCTGGAGTGGAATGTCCCCATTGCTATCCACATGGTCCCTCGCCTCCCTGATACTGTA  
GTCTCAGATGGCACCTNCTGAAGTGGGCCCCGAGCTCAATCACTTTCCAGACCCTGCCCA  
CCTCGCTNNGAGCNTCAGTGGTCCCATGGTGGGCAAAGGAACCCAGGTTTNG

Sequence 874

GATATCTGCAGAAATTCGCCCTTTCNCGTGGTTCGCTTTTCGAGGTACTGAGGATGACTAGAT  
GACAAATAATAAGAAAAAATGGCATTGACTTTGTATAGAACTTAATAATCAGATTTTTAA  
AGAGGTTAGTCTATTCTTATTTGAGAGATATGGAACTATCTAGGCCTAAAGACTGTA  
AATCTGCCTGGAATCAGATAGTTGGCAGCAAAATCAGAAATAGAAAGCAGTTACTCAACA  
ACCAACAGTTTAATTTAAGAAACATTTGACAAGCATCTCCTGTGGATAAGACCCTATGCA  
AGATGTCAATGAATATAAATATGCACAGTAGTACCTGCCCCGGCGGNCCGCTCGAAAGGG

Sequence 875

CCCTTANCGTGGTCGNNTTTNGAGGTACTTTAAAAATAACAGAGTGTGATTTAAGAATAC  
TCAGACTAGAGCCTTCAGTGAGTTGTCTGAGGGAAAGGAGTGAAGTCAGGACTTAGATAG  
AAAGATTACAAAGAAAGTCAAAGTAAGCAGAGGAAAAAGATACCAAAATGACAGCTTCAG  
AATAAGCAGTAAGGGAATAAAGAAAAACAAAGTTGTGTGTGTGTCATGTATTACATGATA  
AATCCATGGAAAAAGAACTCGCAATTTACTAAAGGAATAATTCATGGTCATACCAATTTT  
TGTGTCCAAACTAACTTGATTAGTATCAGAAGGAAAGTCAATGTTTAAACAGTCCTTCC  
CACATCTGCTACTTCCATAATGCCTATGCAACTGTCATAAATTAAGAGTAGAGAAGGGCA  
CAGGGCC

Sequence 876

CCGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTAGCGTGGTTCGCTTCGAGGTACT  
TGNTAAAATTCAGATTCTCGGACCCACCCTAGACCTACTGGATCCAAATCTCTGCAGACA  
TGGCCTGGACATCTTCATTATAACAAGCTTCCACATAGATTATTTTGTAGTGGCCATGT  
CTTGCTTTGCTTCTGTGGAACACTACTCTCCATCTTCTGGAGTGGAATGTCCCCATTGCT  
ATCCACATGGTCTCGCCTCCCTGATACTGTAGTCTCAGATGGCACCTCCTGAACTGGGC  
CGAGCTCAATCACTTTCCAGACCCTGCCACCTCGCTGGAGCTCAANGGGTCCCATGGT  
GGGCAAAGGAGCCAAGTTTGGGCAACAAATCCCTATGCATTAGAAAGTAGATGGGGCTGC  
ATTACAACACACAAGCACTCAAGGACTCTCTGTAATATCTGGACTCATAGGAAGGTGATC



Table 1

ACAGCAAGAGGGCAGATGAAGCNGACTCAAGAGAAACAGATNAGACCAGAGAGACCCTGG  
TTCTTGGTTTGTCTGAAGNCATGGNCCATCTNCTATTCTAGAATTANAGAGTTCCTGGA  
AAATTCCTACCANAAAAAATTTCTTTTGGNTTNGACGCTTAATTGAGGNTAATTTCTAT  
TNTGGGCAATNTCAAAGNNATTCAANGAAAAAAGGG

Sequence 877

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTAATTTTTTTTTTTTTTAATA  
GAGATGGGGTCTTACTATGTTTCCCAGGCTGGCTCGAACTCCTGAGCTCAAGTGATCCTC  
TCACCTTAACCTCCTGAGTAGCTGGGACTACAGGTGCANACCACTGTGCCCTTACTTCTA  
TTCTTACTTGACAAAGGAGAGGAAAAAAGGAAGTTTAGAGAAATTAAGTAGTAACCT  
GTCCAAGTTTACCCACAACCACTAAGTGGTAAAGCTGGGGTTTGAACCTCAGCAATGTGC  
TTAAATCTCAGTAAGTAAATCACTATGGAGGACCTTAGGT

Sequence 878

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATGTTTGTAATTCCTTAAATATTTATGC  
TCAAACCAACATTTCCATTTTATCTATCTTAAATATATCTTCTCTTTACGCCCTAAT  
TTCTTAAACTCCAGAGTTTTTTCTGTATGATCTAGTCATCTGTAGCACTCTCACAAA  
TTAAGCTCTCTTATGCCCCAACAGTAACGAAAGAGGTCTCTTAGTTGGACAATAAGCAG  
TGAAAGATATTTCTTATGGGACAAGAAATTAACATTATTAGTCAATGTTGATGCCGGTA  
GGCTGAGAAATGATTCTCACTTAAAGCCCCCTGGGTTTTAAACCTCTCTTAGAAAAACAT  
TAGT

Sequence 879

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGAGCTAGATCATCAAGGAAGGTCAGGGCA  
GGGTTACAGGATGAGGGCACTTTGCCATTCTTTTGTGATTTGGTCAACAAATGACACAG  
GTTATTTACAATCTTGACCTTTTGGAAAAGATACAGCAGGTAATAGCCTACAGGAAAGAG  
GAGGTAGAAAACAAGTGCCACAGTAGA

Sequence 880

CCCTTAGCGTGGTCGCGGCCGAGGTACATACAATAGAGTATTATTCAGCCTTAAAAAGGA  
TGAAAAATCCTGACATGCTAAATATAAATGAATGTTGAGAACATTATGCTAAGTGAA  
TGAGCCCATCTAAAAAGGCAAACTGTATGATTTCACTTAACTGTGATATCCAGAGTAA  
ACAAATTCATAAAACAGAAAGTANAATAGAGGTTTCCAGGGACTGGGAGTTACTTGATA  
TAGAGTTTCAATTTTGAAGATAAAAAAGTTCTGGATATTGGTTGCACAGCAATATGAAT  
ATACTTAACACTACTGAAGTGCACACTTAAAGATGGTTAAGATGGTAAATTTTGTAGGT  
GTTTCTTACCACAATTTAAAAAAGAAATTTTAATTAAAGGAATTAATAATTTACAAAT  
ACTATTCATCATTGNGTTTCCAGTTTATATTCAACCACAGCAGTATTTAGGTATAGTAA  
TTAACTTACTTTCA

Sequence 881

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCACTGCACTCCACCTGGGTGACAGATCAAG  
ACCTTGCCCTAAAGAAAAAATTTAAAAAATAAAAAATTTAAGAATTTCTATGCCCTTTA  
CCAGGCCAGCTTAATCAGACTTCTCTAGGCCCTAGGACAGGCTTAAGATCAGTTAATTTAA  
AACACTTCTGATGTTTCTTGAGCATTGAAAAGTTTATTCTTCTGCTTGTGTTTCAAT  
CTTTTGTGTTTGTCTTTTACTAAGGCTAGAAACACGTATTTGGTTTGGTTATCTGAAGT  
TTAATTGCATTCAATTGTGTTTATAGTATTTATCCCTGTAGTGTTGGAATTACCAGTCACT  
TACATTCATATTTNAGTTTTTGCCT

Sequence 882

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTCTTGAATATTTCCAGGGCACAAGATA  
TTCTTATACAGAAACCTCAGAATGGAAAATAGCTAAGACATAAGCAGTGTTTCACAGAAC  
CATCCATCAGTCTTTTTTAGGATGTAGCAGTCTTCCATGTATCACTTAACCAATCATTAT  
TCTTACCCCATCTTTTTGGGCAGGGGGTGGTAGAATTTAAATTTACCATTACTAAGACA  
GGGTGATAGTAAGCATAGAAATTTGGGATGTCTTTTTTTTCTTGCCCTAAACCTTCAGA  
GTTCTGCCAGGTGATTCAAATGTTTAAGATCCCATATCTCGCCTGTGTGCTCAAGCGAA  
CACTAACACTTTAAAAAGTGGGAATGAAAAATCTGAAGTGGTTGAATTAGACACAGTAT  
TTGGCCCCATCTTTCAATTTAG

Sequence 883

CCCTTAGCGGCCCGCCCGGGCAGGTACTCAAAAATTTAAATAGCCATCTAAAAACATCTCA  
GGTAAAAAATCTGTCCCCTGCATTTGAAACCAAAATTTTTTCTCACTAAAACACATT  
TTATTTAATAGTGAGGTGAAATTACATTAGCCCTCTTACATTTATTTGATTCAAACCTT  
TTTTAAAAAATTAGATTCTTTTAAAAAATAAATTAAGAAAAATGACATCATTATCA

Table 1

GATAGCCAGCTACATGTGTAGTTTGATCATTTCAGTTTAACCGTTTTATCACTGTTGATAT  
GAACATTGAGTACCTCGGCCCGGACCACGCTAAGGG

Sequence 884

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGATACATGTAAAGTGCAAGGCACCTTGCTA  
GAGAGCATANGAGCTATACTAAGATATAGAGTCCTGCACAAATCCACAAAATAACATGAA  
TACAAAGTGCTCTAAAAGTCATGCCAAATAAAACAGANCATATAACTGGGCAGAGGGATG  
GAGAGTCACATGCTGGAGGAGGTGAGCGTTGACATGGTCTTATGGGATATGAACTTGAGA  
TGTTGAAGTAGAACTGAGACATTTCTGGAAACTANATGTATNAACAGAAGCANGAGGAA  
TAGGAGATGGTTTGAAAACATCAAGCAGCTCAGTTTCTTGGGGTGGTCCAGGAGAAAGA  
AGCTCAAACAACATTTCAGTGATAACACTTAAANNATCAAAATTT

Sequence 885

CCCTTAGCGTGGTCGCGGCCGAGGTACAATAAACAAGACAGTGCCTGCTTGACCAGGG  
GCTGGGCCTCTTCATAGCTCTTTTCCCTGCCTTTTGCTTCAGAGTTGATCTGCTTCTTA  
CACATTCACTTTTTCAGAGTTTGCTATCTTAGAAGCAAGGATCATTTTTAATTGGTTTGT  
TTACTTCAAAGTCCCACTCATCAGAGCGAGNTGTTTCGCTTATATTTGGTCAACTACTT  
TNTCTGCTTGGTTTAGTAACACTAATGTTTACTAACATTAATAATGAAACCAGTTTTGCAG  
CTAGCATCTATTGACCAATATAATTATTTTCAAAGTGTATATCCAAAATTTAAAC  
ATATTCAATGCTTATTGAACATCTAAACATATANCCTTAATGAATAANGGGAAATATAA  
CCATCTGGTTTTTGGATCTGAAAGCCACAACCCACCTGCTAGANTANTTTGGGGAAAGGC  
TTTTANTTCCAAGTTCAAAGGNTGAATTCCTCCGAGGGNNGNNGGGGNCCTTCCCTTCT  
NAACCAGCAANAAACCTNGCNCAGTTTGGGATTTTGGGNGGAAATAAACCCNAATGA  
NGCATTTTACTTTCCTTTTT

Sequence 886

CCCTTAGCGTGGTCGCGGCCGAGGTACATATGGCTCGGCAAAGGGGGACTGGATTAATAA  
ATTCTGGTAATATAGTAAGGACAAAATAAATGTAAAAAGATAGAAGTAAATGGAGAACA  
TCAACATGAACGCGTGCTCCTTTGAGTAGAAAGTAATTTTTCTGCTTTGCTCACTCAAATA  
GCTGGCAGACCTGACATCACCTGCGCTCTGCTTCCATGCTCTAAAACCTTCTGGGCCTC  
AGATTTGGATGCTAATATGATTTTCCACTTAGTGGATAAGAGCTCCCTGGAGAAGGGCTC  
ATTCTTGGATGGACAACAGAATTAGAGCCTGAGTTCTAAGAGCTTAATAAAACAAAAG

Sequence 887

CCCTTCGAGCGGCCGCGGCCGAGGTACCCGATGAAAGTTTAAATCTAATCAACAGTATT  
ATGCACTGGTTGAAGAAAACAGGATTAAGACGGAGGATAGTCAGCATGGAATCTAANAA  
GGGAAAAGTCCGNTAACTATATGTGTTCAATNAGATTCTAAAGCTGTTAAGGGAGAAAGAC  
CCTGAGTCTAATGAATATAAACTTTAAATTTAAAGAAAAACATGNTCTGTTATAGAAAAG  
TGGGCTTTTAANTTTTGTAAAG

Sequence 888

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTAACCGTCTTTTTAAAAAATTATTATTAGT  
TTCAGTGCTGTTTCTTGAGGGAGCACCGGTGGTGCAGGTCAGGTTTGTCTTCTNAAT

Sequence 889

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAACAGGCCAGATATATTCTCTCATTAACCTTA  
TTGCCTAGCAGAGAAGACCAACATTTTTAAAGTTTATACATATAGTTAATTTCTATTAT  
GATTATATGATACAAATGGAAAGTGCTATGAAAAATGTGAACAAAAGAGAATAATCTGTC  
TGAACAGTCAAAGAAGACTTCTGGGAGATGACATCTGAGCTAAAGGTTGAACAAGGAATT  
GGAAAACAGCTGGCATGTGCAAAAGACTTGAANACTGAAGGAGTTAGCCTTTAAAAAAT  
GAAGAAAGTTCTATTTGGCCAGAGCAGAGTTTCAAATAGTGCCTCACAGGCCACGTTAAA  
GACCTGAGGCCTTTATTCTAGGAGAATAGGGAGCTGCTCAAGGAATTTAACTTGANAAGT  
GACAAAGATCAGATTTGCAATTGCCTTTCAAGGTGGTAGGTTACAAGGGAGTTGGGTCTC  
TTGACCTTTGCAAAATATACCCCATTTCTTAACCTAAGAAATGGG

Sequence 890

CCCTTCGAGCGGCCGCGGCCGAGGTACTTGCCTTGCAAAATTATATTACAAGAAGAAG  
CACACTTGTATAGAAGTGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCTGTCTT  
TCAGGTCCGTCTCCCACTCCAGACCTCATTATATTATCCCGAAAAGAACACGATCTC  
TTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCACCAATTGGCAGGGCCC  
ATTGGGTGATAAATGTCCAAGGACCTTAGGCTGACGACACATTTTTCATCATTAATCCA  
GTCTATTGTAACCAGGGGCCACTCACATTGATTTCGGACTAGGGGGCATCATCTGCTGTAA  
AGAGGGTGATGACTCGCTAAAAATGAGGG

Table 1

## Sequence 891

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACTTCATGGCTAAGCATGTGCGGGATGGAA  
CCGGTCTTCCTGGGCTTACATCTTTGCTTTCCTCTTCCTGTGATGAGTCTTGGGG  
TAGGCCTCAAAGGCTGAATCTTCAATATAAATACAACAGTGAATGAACAACAAATGGTTA  
TTTTAAAGATCTATCTTGGATGGCTATTTAATTTCACTAAACCCAGGTTGCTCACCTGT  
TGACTGGAACAAACAATAGTCCCTTCTCATGCGGGCATGGTGAGGGTTTTAACCCCGCA  
TTGTCCACAAAGACCGCTTAAATTATAGTAGATGCTCAGCAAATCTGAGCTATTATTTT  
ATCACGACTGTGAGAGGTCAGATCAGGCTTCGGGGTCAGACACACCTGGGTTCAAATCCC  
AGCAGGGCCACTTACTGTTGAGCCGGGGCAAAGTCAGTTATTCTCCCTGAGGGTCAGTT  
TTCTCATCCCTAAAAATTCC

## Sequence 892

CCCTTCGAGCGGCCGCCCGGGCAGGTACTACAGAACAGGAACAATCTGCCATGTGTGTTT  
ACAACCTTCAGAAAGCCCTGGAATGACAGTTGCCAGGGCAGTTCTTTGAATTTGCAGGTCA  
GAATTAGTGGATGATGAATTTTTTTCACACATGGTCAACTCTGTGCCACCTGCTACAAGA  
TGTTGGAACAGGTATATTTATTTAATGATGATCAATGATTCTTCCAACATCAGGGA  
ACATCAGGGAAATCAGCTAGTATATGCTCTTTTTGAGGATTTTCACTCCAAATCCTGAA  
AGCATTCATGAACTACATAAATTACTTTTGAAGCAAATCATCATAAGTAAATCCAGT  
CATATGAATCTGGAAGGATTTGCTGGTGGGCACTAACACTGACCACATGTTTCAAGTGTG  
GGCAAGTTTACCATCCATCACGGATTTTGTGCTTGGTGAATTGTAGGGAGTGAAAGAGAG  
AAGGATGTTTGGCCCAGTTGTCTTTTTACCTATATCTGAAATCTTACTTAGTCAAAGA  
ACAAAACATTTAGACATTTTCAATTCCTTTTGGGGGTTTTAAGTGATACATGTTTAAAAAT  
TGATATTTTAGAAGAAAATTGTTTTATTATATATAATTTATTTAAATTCNGGNGGAGA  
AGACCAAATTTATCCTGAGNAAAAATTTAAATTTGAAGNTTAGGTTGGCTTTTTTAAN  
ACCCNCCGGCCNAACCCCAAC

## Sequence 893

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAGCATTAAAAAAGTCCTACAAATTATTAGA  
GAGAAAATACAGGTTGCACGCAAAGCATAAAGAATGAGAATGGCATAAGACATCTTAACA  
GTGCCACAGAACTAAAAAGTAGTTCTGAGTAAAAATGAATATTTACCCAGCCAAACCG  
TTAATTAGGTATAAAGGTAGAGTTAAGACATTTATAGACATACAAGATATTAAGATTACT  
GAGTCAATTGATATTCAACAGGGGTGCAAATGGAGAAAAAGTCTTTTCAACAAATAGTGG  
TGGGACAAATGGATAGCCACATGCAAAAGAACATATATATAAGAGCTAAAACCATATGC  
TTTTAGAGAAAATATAGGGTTTATCTTCATGACCTTGAATTTGACAAAGGATTCTTGA  
CATGACACCAAAGCACATGCAACAAAAGAAAAATTGGAGTGATATG

## Sequence 894

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTCACACAGCACATCAGTGGCTACATGTGAG  
CTCAGACCTGGGTCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGACTGATGCAGG  
TGTCCAGGGATACGTCCATCCCCGTCTGCTGGAGCCCAGAGCACGGAAGCCTGGCCCTC  
CGAGGAGACAGAAGGGAGTGTGCGGACACCATGACGAGAGCTTGGCAGAATAAATAACTTC  
TTTAAACAATTTTACGGCATGAAGAAATCTGGACCAGTTTATTAAATGGGATTCTGCCA  
CAAACCTTGGAAGAATCACATCATC

## Sequence 895

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTCACACAGCACATCAGTGGCTACATGTGAG  
CTCAGACCTGGGTCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGACTGATGCAGG  
TGTCCAGGGATACGTCCATCCCCGTCTGCTGGAGCCCAGAGCACGGAAGCCTGGCCCTC  
CGAGGAGACAGAAGGGAGTGTGCGGACACCATGACGAGAGCTTGGCAGAATAAATAACTTC  
TTTAAACAATTTTACGGCATGAAGAAATCTGGACCAGTTTATTAAATGGGATTCTGCCA  
CAAACCTTGGAAGAATCACATCATC

## Sequence 896

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGAGCTGCCTCAGCACTCTTTTGCCATTCTGTG  
CTAGAAACAGCCAAAGCCAGACAACCAATTACAGATGCTTAAATGTTAATGCCAGACAC  
CAAGGCTCCGTGAACCTCCCTGTTGAACATCTGACCCCGACTACTTGAGGACATGAAACC  
TAAGTGTGCAGCTAATTACACCTTCCAAGGGCAATGACATCGGGTCTATGATTTTATTTC  
AGGAAAGCAATAAGGCAATCGGGGTCACTGTGAACATCATTTGAAGGGAAGTAACTTCTT  
AGCTTTATTCCACAAATGGTCTAT

## Sequence 897

CCCTTAGCGTGGTCGCGGCCGAGGTACCGGTGTAGTGTATAGAATGGTTTGTATCAAAC

Table 1

AGATCTACATTACTTTACTAGAAATATAGGGCAATAATAAAATTTCCAAAGCCAACTGA  
ACGATAATATATATTTCTTTAGAAAGTCTCAGAAAACCCATTCTGAATGACAAAACGGA  
GAGATAACTTACAACCTAGGTGATATCTGAAGTTAAATTTCTTGGTTATCTATTTCAAAA  
ATTCACTAACTATTCTGCACTAAAATGTTTCACTGGGTCAGGCACAGTGGCTCATGCCTGT  
AATCCCAACACGTTGGCAACCTGAGGCAAGAGG

Sequence 898

CCCCTTCGAGCGGCCCGGCCCGGGCAGGGTACCNCGGGGTNGGACTCTNTGGTTTTTNA  
ACCTTATGAACCATTAACTTGGGAACCCCGGCCAAAANTAAGCCTNNGGGGGGCTTGAGGGG  
ACTTTTANGANNNAACCNTTTAAACATTTGGTNTNNTTNAAAAAAAAAATTNCAGGGTTTN  
CCGTNCCTTTTCCAAAGGGGGGAAAAANGCNCNAACNTTTTTTTTTTTTTTTTTTC

Sequence 899

CCCTTTTCGAGCGGCCCGGCCCGGGCAGGTACTGACAGATGCCTGGGTAAACCATGTCCAATGT  
TCAATTTACTTTCTGCTGGACAGATAGAAGGCTCTCCTGCAGCCTTTTCGTCTTCGGGTG  
TCCGCTGGTAAGAAATCCGCCACACAAGAAAGCACTGACATTTGGAGCCTCATCAGGTTT  
AGAGTTGAAAGTGAATAAAGGATAATAATCTTTGTCTTATTTCTTTGTTTTAATGTTT  
CCCAACTTACGTTAGGACAATGTCAACAAAGACAGATGTCCCTAATAGTAATTGCAGGAC  
ATGTGTTTTCTCATTCTATC

Sequence 900

CCCTTTGAGCGGCCCGGCCCGGGCAGGTACATTGGAGGGGGCCATATCCAGGACCTGTGATG  
TGTATAGGCAGACCAGACTGGTAGGGAAGAAAAGCAGAGATATCAAGTGGGGGACATGTG  
TTTGCCCTGGGGCTCTATTGGCCTGGAATTTTGTGGTAGGAGGAAGGCACAAAAGTAGA  
CTGGGATTACAGGCGTGTGCCACCGCGCCCGGCTAAAGTGTGTTTTATAATAAACCTC  
AATCTGAAACATTTTAATAAACCTTTAGATGACTAGATTTATGTTTATTTTGGATTTAT  
GTTTATATGAATAAAAAAAGAAAAAGACGAG

Sequence 901

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATGAGATGCATTTGAAAACCTACCTTGTTTA  
TATGTTTCTTCTGTTGCAATTTCTTCCATTACCTGGGAATAGCTGCTTTGGACGGCAAAAC  
CAAGCAATGCCCTTTCACAGCTGTGGGATGAATGGGGAAGAAAGTCTTGGAAGGAAGCA  
ATTCAGAGAACATGGGAGCATCTCATGGCAGCAGTCACAATTTTGTGTTGCGTAATATTT  
CAGGAACCTTGCAACCCTGATACTTGTGCCTGCCTGTCTGTAGGCCTTAATGATGTTTT  
ATTGAATTTTGG

Sequence 902

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTATACAAGGCCAAATGAACTCTAAGTAAAA  
AAGAAAATCACACTTCTAAACACAAATTAACCATTTTCACTATTTAATTGCTCCTAAAAAGG  
TGATTCTACTTCATTAATGTAAGAGAAAAGGTTACCTACATTACGCAGTTTAAGAAAC  
AGGATAAACTTTAGCATATAAACCACTCTTGATTACAATTTCACTTTCAACCATCTTA  
TTTATACCTCTACATTAGATAATCTTTAAATTTCCATCATAAGGTTTTCCCATGTTAAC  
CTNCCATATAAAATTTTGGTAATCCTGCCC

Sequence 903

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGTGACAGGAGAGAGCTCATGTGACCCGAGT  
CTGGGTGGTCTCAGGCATGGTATAAAGAACTAGGCCAACCAACTGCACTAGACATAGAAA  
CTAGCTGAATAAACTCATCCACTCCGATTTTCACTTTCAGGTATCTCATGAGAACTAGAGG  
ACAAAAACAATTCAAAAATTAACAAAACAAAGTTTACTCTAGCCATCAGTGCCAATGAAC  
ATAAATGACTGCCTGAGAGTTATATTAACAAAATAATTAATTCAGACGAATTAAGGAATT  
AAACCAGCTATGGGAAATATACACTCTATACTTAGATGCACATT

Sequence 904

CCCTTTTCGAGCGGCCCGGCCCGGGCAGGNACTTAAATAAAATAAAATTAACAAATCATTT  
TAGAGATAAAGAGTGAAGTTACTAGAAAAAGGTGACTAGGACTCTGTTTATGAAGAAAGG  
TTAGTATTTAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACCTAAATTTG  
TAATTCAGAATGGCTTTTATGTATCTAAACAATCTGGGCTGCTATAAAAAATTCAGTCAA  
CTTCTAACTTCCAAACACAAAATAGTTATACTCAGTCTAAGAATATCCGACCTACCGTG  
CAGGACCAGAGGGCTCATCTC

Sequence 905

CCCTTTTCGAGCGGCCCGGCCCGGGCAGGTACTTAAATAAAATAAAATTAACAAATCATTT  
TTAGAGATAAAGAGTGAAGTTACTGGAAAAAGGTGACTAGGACTCTGTTTATGAAGAAA  
GGTTAGTATTTAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACCTAAAT

Table 1

TGTAATTCAGAATGGCTTTTTATGTATCTAAAACAATCTGGGGCTGCTATAAAAAATTCAG  
TCAACTTCTAACTTCCAAACACAAAATAGTTATACTCAGTCTAAGAATATCCGACCTAC  
CGTGCAGGACCAGAGGGCTCATCTCTTGCCGAGCTTAATACAGTTT

Sequence 906  
CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCTTTAAATGCATACTAAGCTGTGAATGA  
CTGATATCAGAGACTTTCTTGGAAGTAGGTTTCATAGGATGGAGGACAAATGAAACTTTA  
TGGGCGAAGAAAGAAGGGTCAGTTGGGTGGTGCATTGAAATAAGTGGTTCCAAAAGCAAA  
CTAGGTCAACTTTTTAACTGGCTAGTGAATGAGATTCTCAGGATACAAAAGCAAGGA  
GAAGACAGGAATAAATCAGGACTCCAACAGGCAGAACAGGATTTATTTAGGGCATGCAAT  
GTGGAGGGGCCCTAATGGGAACATGACAGTGT

Sequence 907  
CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTGCATTGTCAATTTATATTTGTTTCCCCA  
CTAAAGCCTCCAAACCTTGCTTGTTTTGTTTAAAGTATCCCTGGGGCTCATCACAGGGCCT  
GTTGAAGTCTTTTGAATGAATTGAAGAATGTGAATAAGTTCTAGTTCTTCGGGATA  
ATGGAAAGCTAATAAGGTTTATGCTAGAGGCTCTTACTGCTGGGACTCTCTCTTGTTTT  
TGGTTTTTAGGAAAAAGCTAGAAAATCCAACCTCAGCTAGAGTAACAGTAGTAAGTACG  
TTGAAAGTATGTCAAAACAAAACTGTAA

Sequence 908  
CCCTTAGCGTGGTCGCGGCCGAGGTACCTATGAGATGCATTGAAAACCTACCTTGTTTA  
TATGTTTCTTCTGTTGCAATTTCTCCATTACCTGGAATAGCTGCTTTGGACGGCAAACC  
AAGCAATGCCCTTTCACAGCTGTGGGATGAATGGGGAAAGAAGTCTTGGTAAGGAAGCAA  
TTCAGAGAACATGGAAGCATCTCATGGCAGCAGTCACAATTTTGTGTTGCGTAATATTTT  
AGGAACCTTGCAACCCTGATAACTTGTGCCTGCCTGTCTGTAGGCCTTTAATGATGTTTTA  
TTGAATTTTGGT

Sequence 909  
CCCTTCGAGCGGCCGCCCGGGCAGGTACCTCTTCTCAATTTTGCTATGAACCTTAAACT  
GCTCTTAAAAAATATTTTTTTTAAAAAAGGAGGNGTTATTATCAGAGATCCCATAGAC  
CTTAAAGGATAATGAAAGATGCTATGGGATAACCTTCATGCTAAAACTTCAACAACCT  
AGAAGTATGAAATGAATGAACNTCTCCAAAAAATACAAGTTACCAAAATTGACATGA  
ATAATAACAGAAAATNTNGANTAACGCTCTAACTATTAAGGAACGTGAAGTTTGTCAAA  
AGCTTCCCCAAAATAAAATCCAGGACCAGATGG

Sequence 910  
CCCTTCGAGCGGCCGCCCGGGCAGGTACTCAATGGGGTAGGGTGTCTTGGGATCTGACT  
GTTTCTTAGACCTTCAATGCTTCTTGCTTTTCTCACTGCTAGTTATAATTCAGTTTTCT  
CAGGTCTAAGTCATTCATCACTCTTTTGTCTGCTTTTTCAGCTTCCAAAAATTCATTGCTA  
TTATCTCCTCTCCTGTTTTCCCTATTGGTGTGTTGTNTCTTTTTCTTAAAAAATTC  
TTTGTGG

Sequence 911  
CCCTTAGCGTGGTCGCGGCCGAGGTACAACCTAGCCAGCTGCACAGCAGCTCTCCAAGAA  
AAAGGTGTATATTAGACAGATTCAATTATTCATCTTGTGATTATGAGTAGTAACCAAATT  
GTCTATGTAATTTTCTTATGGTGAACACCCAAAGCAAGGCCTCACCTTAGGCTACCAGC  
TTGACTCTTAAGTGGACAGAAAGAGCCAAAGGCTAAAAGGTTTGTGAGAAACCTCATGAG  
CACTGAGTGTCTAGTTCCAGATGAAAACCGTTTCAGGTATGAAGCAAGAGGGAGTGCT  
AATTGGTAGAAGTAATTACATCTT

Sequence 912  
CCCTTAGCGGCCGCCCGGGCAGGTACAACAGAGCACAAATGCTTAGATTTGGGTGGATTTG  
AATAAGATGAAAGATAAATTATGATTTTGTTCAAGTGTTAAATAAACTAAGACACTTA  
AGGACCACAAAAATTTAGACCAAAGTATCTTGTAATTTCTACCTGGTGAAAGTTTGATAT  
AGCACACATATGACTTTTCTATATTATTTTCTGTTTTGAGTTTAGTAGTAAGCAGATGGT  
TTGATTTTCTTTAGTTGCAACTAAGTGATCAGTTTCATGATTTCTTACTATGAAACA  
TTTTTTTTTTTTCTTAACAGTTATCTT

Sequence 913  
CCCTTCGAGCGGCCGCCCTGGGCAGGTACCACAAAGTTATTGCCTACATCCAGGTCAAGA  
AGATCTTCTACTGTATTTTCTTCTAAGAGCTTTTACATATAGGTCAATGATCAATCTAAA  
ATTAAGAGTTGTGAATCATTAACTCTAGCTTTAGACTGGTATACTAATTGGTTTGATA  
CGAACTGGGTAAAGGCATAGGACACATGCAGGCTGTGTTCAATTCACAGCAGGGCTCTG

Table 1

TAATTAGGCAATAATTACTTACCATCATACCTAGTGAGGCAATATGGGAGAAACAAAACA  
GGCCATACAGCTTCACTATTATTCCTACT  
Sequence 914  
NNCACCCCTAGCGTGGNCGCGGCCGAGGTACTTGAGGACCAAGCCACAGAGCAAGCGCTA  
AAAAAAAAGTTAACTAGAACCTTACCACTNTTNCACGCACCCCAATTNCATAAAATGTAT  
CAGNAAAAAAAAACAATNATCTAAAGANAAAAAGNAAAGAAAAANNATNNANCACATAG  
GNAACNCGGGTGTCAACTAGGNAACNGACCTATANNAANNAGGAAGANAGNGNCTNCCCT  
CCTCAATNNNCAGANNNACGGAGGGGAGGCTCAAAAGGCCCGAGAGGCTCNCTACAAGGA  
GAAAG  
Sequence 915  
CCCTTAGCGTGGTTCGCGGCCGAGGTACCAGAAATGGTAAATATATGAGTAAATATAACAC  
ACTTTTTCTTTTAAAATTTTATTTAAAAGGTAACACTTTGCAGCAAAATAATTAACAA  
GTATTGTGGGTTATATAGTAGTAAGATGTTTGACATAAATTACATAAATAATTGGAGCAG  
GGAAATAGAAGTGTGTTGTTGAAATGGTTTGATATTATATATGAAGTGGTATATTATTAT  
TTCAAGGTAGCCTTGATAAGTTAAAGGTTACATATTGNAAACCCCTACAATAATCATTACA  
AAATAAGAGATATAACAGNAAG  
Sequence 916  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTTCATAGAGGTCCAGACCCCTTGCGTCTGGCAT  
TCCTTTGGTCTATAATTCAGTAAACTCTGCTAAAAAGGAAACGAGACTAGCTTGCTGTGG  
CCCCTTAAGCGACCCAGGGTAGCTTGATGTTGAGATTATGATTGTTCTAGAGCTTT  
TCCAGAGGCAGATGTTGAGGAGTTTATCCTATTTGNCCCCCTNCCCTTTAAACAAACAAA  
GTGCCGCTGGACGCANTGGCTCATGCTGGTAATCCANCNTTNTGAGAGGCTNAGGCAG  
GCGG  
Sequence 917  
CCCTTCGAGCGGCCCGCCCGGGCAGGTACTGCCTGGCATGCATCTTCTCGATGGTCTGTT  
ATCTTGTTGGGAATGACATTGTTAAAGTTGTTTTCTGTGTGCATCCACCCAAATAAGAA  
TGTTTCATCAGCAAAGTGAATTGCCGTATAGTCATCAGACTCTAGAAATAAATTATCAAC  
GATGACTGCAGTGGGTGAGGCTGTTTGTATATCACATCACTTGAGAACAGAGTAAAGTGA  
GTTTCATATTTTCTGAGTCTTGAATTCTATTTTAGACATCTGTTGAGAAGCTTTCTAA  
GCCATGGAGTATTCTAAATGAGC  
Sequence 918  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTACAATTATAAAGTTACCAATAACTTTACATTA  
AGAAAATCATTTTCTTCCCTTGAAAACAAAGTATGTCCTCACTTTCCCTGCTCTTTAT  
TCATGGCAGTATGAAATGTGTCCCTGATTCCCTCCGACCTGCCACAGAATACTGAAACAG  
TGGCCGTGGGAAGAAATACCAGATGGTATGCATATGGCTTTGGGAACAGCTTTGAGCAGT  
GGTCACTTGCTTTTTTTAATGCATTTCAAATGTGTTGGTTAGCAAAAAATAATGAGA  
TAATTCCTCAAATAAATG  
Sequence 919  
CCCTTAGCGTGGTTCGCGGCCGAGGTACAACAATTTATCCATTCCCTTTAGCAATAGTTGGA  
CACTTAGAATGTAAACTGTTCAAACAAATTGGTATATTGGAGTTTGGGTAGAAAGAAGG  
GCCGTTGGAAGAGGAGGAAAAAGAGGGTGAGATGATACATTAATATAAATTACTGAAAGGT  
GGTGTTCACATTTAGAATTTTTTTTAAAGTTGCATGTTTAGGATTTTAGTGCTCAGGAG  
GAAAGAAGGCCAGTGTGCCCCTCCAGACCATCGCTGCCATTTCCCTGTAATATATCGTG  
TGTAAGAGGAACCTAATGCCTGCA  
Sequence 920  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTCGCTATTTCTAGTTCAAAATCACAGATTTTCA  
GATTGAAAAAATTTCAATCCACTTATTTTTCAAATGAGATAACTGGGACAAAGAGAAAT  
CCATGACTTGCCCAAGATTACCTACAGTTTAACTGTCAGCGGGGCTTAAACCCACAATCC  
ACATCTCCTGACTCCCAATCCTTTCACTTAAACAAACAAGCAAAACAAACAAAAAGATT  
TCTAATAAAGTGGAATAATTNTAAGAAAGGCAAGTATCACTATTTTAC  
Sequence 921  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTCACATGTAAACTTCTACTTTCCCTTCAGATT  
ACAGCAACCATCATGCCAAAGCTATACACTCTCAGGGAATCCCTGTGGATTTCACTGATG  
ACCATTGACCAACTATCATAAAGATCAAGGCCAGGGGTTCTCAAACCTCAACATTTGT  
GTGCTCATCTCCCTTCACCCAGAGACTCCCCAGGGCTGCTGGGCCACACTTTGGTTTGT  
TTGACTGGAACATAGTTTGAAAGGGATGGAATTTCCAAAGGTGTTAATAGACACATAA

Table 1

AGATTTTTAAATATTAAAAAAGAAAAAGAAAGA

Sequence 922

CCCTTAGCGTGGTCGCGGCCGAGGTACATACAGTATGCACTCCCTTCTCTGTGTTTTTG  
TCTGAGTTGATGATTTGGAGCTCAAAGAGCTAGCGGAGGGAAAAGCTGAAGCCATTCAA  
CACATAATGAGAATTGGAGATGTAAAGAAAGGCTGAGTTCTAGGAGTTGCAACAACCTAG  
GAGATAACAGAACCAATTCGGAATGAGCAGGAATTGTAGGAATGCAGGCGAGGACTAGAA  
GAATCAGCTACATGCTGTTTACTGGCAAAGCAGGAGAAATGTGACTGAGGACAGTATGCC  
ACTGAAACTGATGAAAGAGGAGGGAGACAGGAGG

Sequence 923

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTGTCTCATGCTCTCTTTCTGTTAATAGCAC  
CTCAATTCTACTCTGGGGGACATTCCTCCTCTCTTTTGGTCTGGAATGTCCCCTGGCTT  
CAGGGACAGCTCAACATGGGCCTGGACAGTCAAATCCATCCCCAAGCTTGGGACTCAGG  
GAGACCATCCAGTGACTTGTCTGAAGTGCTGGGAAGGCAGAGCNTCCTTTCTGCGGGG  
TGCTGAGTGATGGGACGACAGNGTGGAGCTACTGNGCTCTCCAAGCCGNGCCCAGGACC  
AGCCTGCCTGAGAACGAAGCCAGC

Sequence 924

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTGCCCTTGCAAAATTATATTACAAGAAGAAG  
CACACTTGTTATAGAAGTGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCTGTCTT  
TCAGGTCCGTCTCCCCACCTCCAGACCTCATTATATTATCCCGAAAAGAACACGATCTC  
TTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCACCAATTGGCAGGCCCC  
ATTGGGTGATAAATGTCCAAGGACCTCTAGGCTGACGACACATTTTTCATCATTAAATCCA  
GCCTATTGTAACCAGGGCCACTCACATTGAT

Sequence 925

CCCTTAGCGTGGTCGCGGCCGAGGTACCTACTGTGTTGAGCCCTCTTCCATCTCCTGT  
GTTTCGTCAGATCCTAGGAAGTGTCCTGACGGAGAAGTTTTACAAATGAACCTCGAAC  
TGAAGTATCCCGATTGAAACGGAGATCTAAAGATCTGAATTGCCTTTATCCCAGAAAAAG  
ACTTGTGAAATCTGAAAGTTCAGAGTCTCTTTCTCAGACAANTGGTAATAGTAATCA  
CTATCATCATCATGTGACATCCANAAAGCCACAAACAGAGCGGTCTTACCAGTGACTTG  
TCCATTGGTTCCAATTCCTAGC

Sequence 926

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAACACAAGATTGCTAATAGACTGCTAATAA  
TAGAACTTAATAAATGAAATAATTTATTTTATTTGTTGCTTGGAAATACAGAAAGTGC  
TTAGTAAATATTGAATGAATCAACAAAGTACCTCCCAATATAGAGAAATCACTTCTGAAA  
AGGATAAAACCAAGTTGATCCTATTCAATCGAAGGCATCTTTTGGGGCTGTTACAGTTAT  
TTCCTTTATTTGAAGAAGGAATATGATATACCTACTTTGTTCCAAGTCACTGCTTATAAT  
GTGCTAATGGTACCT

Sequence 927

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGAAGACAGCTACACCTGGTTTCCTCCCTC  
ATGCCTTGATCCCCAGAACTGCTACCTTCACACGGCTGGAGCACTCCCAAGCTGTGAATG  
TCATCTCAACAACCTCAGCCAGAGTGCAATTTCTGTGAGAGAACAAAGATTTGGGGCAC  
TTTCAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTC  
CAAATATGCAATGGAATTGAAATTCAACTTAAAAAAGCATATGAAAGAATTCAAGGTTT  
TGAGTCGGTTCAGGTCACCCAATTCGAA

Sequence 928

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGAAAGAAAACAAATACCAAGTATTTACAGAT  
CCAGAGAAAGTTCACAAGAATGGGAGGATGCCAGTTCCAATGCTTTGTAAAGTCAAAAT  
AGCCACATTGCAAAACAAACAAAAAAGCAGAACGTTCCCGAGTGTGCCCTCCAAACA  
TAAAGGAGAAAAATCATACAGAAAAACCTCATGTAAGGGTTGGAACCTGAGCAACCAGCTA  
TCCAAATACAGAGGGGAATCCTCGCTTAGCTAGGGCATGGCCTGAGAGAAGCCCCCTTCCT  
GCTTTCAGAGCCTACAAGTAGTCCCCA

Sequence 929

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAAGCAATAAATCTGAGCAATTATCAGGTTAT  
TTTATTGCATTTCTAATGAGTTCTTCTAAAAAAGTCAATCAATTATCACTGCTATATAT  
GTTCTGTGTGAAGGAGTGCTTGAGAGTCTTTAATTGTAACATTTATTAATAAGAATAA  
GAGGACATTTTTAAAGGAATTAAGGAACATTAATTCCTTCATAAATGTATAGTGCTTAA  
GCTCTGCTTTAAAGGTCTTTCATGTGCTCTTGGGTAACCACTTAGGGCTGAATTCATA

Table 1

GTATAAATATCAATAAATGTTGCAATCACAA

Sequence 930

CCCTTAGCGTGGTCNCGGCCGAGGTACGCGGGTGGGAAAGGGAGGATGACTCACTTACTC  
TGAAATCTGGGCCCAGGAAGGACCTCTCCCATCCTTGGAGCCTCCTCATTCTCCTGTCTC  
TCACNNGTCCCCCACCTCTACCATGATGTCCTCATTCTGGGAACCCCGAGCAGGGATAG  
TGGCTTGGGCCCCTTCNTCTGGCTTTTCTCCCCACNCTTTGCTCCACTTCTAACATTTTTC  
TNCCTTCATCTNACATGAAAGGGACAANGGGTTAACCCCAAGNAGGGAGGGGCAGAAAACA  
ANGNNCCCCACATCCTGGCTNTGCCTTCTGAC

Sequence 931

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCAGGGATTTANAGACAGGGTCTGGCTCTTT  
TGCCCAGGCTGGAGTGCAGTGAACAATCATGGCTCACTGCAGCCTCACCTCCTGGGCT  
CAAGAGATCCTNCCACCTCAGTCTCCCTAATAGGTAGAATAACAGGTGCACACCACCACG  
CCTGGCTAATTTAAAAATTTTTTATAGANACAAGGTCTCACTATGTTGCCACACTGG  
TAAAGTATTTTAAATTTGAGACATGAATAATGATGCAAATCATCCTTTNTATGGGTCTG  
ATTCTGTTCTGTTACCTTATTCAAGGACTAA

Sequence 932

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGNAT  
TTTTAGTAAACACGGGTTTTCGCCGTGTTAGTCAGGATGGTCTCCATCTCCTGACCTCCT  
GATCATCCGCCCTTGGCCTCCCAAGTGCTGGAATTACAGGCATGAGCCACCGTATNTGGCC  
ANANAAATTTTTTAAATAAATTTTTTTCAGTTACCACTTAAAGGGAAATATGATTAAAAA  
AACTAAATAAAGAAGAGCTTTAGTAAACCATGCCCTCTTGCTAATCTATTAANAGTCAA  
ATCTGAA

Sequence 933

CCCTTTGAGCGGCCGCCCGGGCAGGTACAGTATGTTTCCACTTATGGACAGATAATTAC  
GTAGTAAACATAGAAACACACGAACTGAAAGGACACACACCAGTATCAGAACTAAGTCAC  
CCATGGGGAGGGACAGAAGGAAATAGGATGGAAAGGGGTTGAGGGACTTCACTGTATTT  
GTGATGTTTTAGTCTTTAAACAAAAATCTAAATGACATTTGAAATATGAAACAAACGC  
AGAAAACATCAAAATGTCAACAATACTTAAACCTGAGTGTTGGGTGCCTGAATGTTATAT  
TGGTCTCTGCA

Sequence 934

CCCTTTGAGCGGCCGCCCGGGCAGGTACCCAGTATATGAGCAATTGCTCAGCAGTGTTT  
GGATATAGGGAGTGGATAGCTATTATTAATTGCAGATTATTTTGAAGGAAAAACACACA  
GAGAATTATGTATCTTTCAGTGTAATGTTAGTCTAAAAACAATCATATTATTTACAAA  
GCTGCAGTTATAGAACACAATTCTGATTTCTGCCTCACCCCCACGGTTAATACTGTAAAA  
CATTTCTACGTTTCATCTGATAGTGTTATTTAAAAATAGCTGTTATTTTAAATAGCTATA  
CTAAACATAAAAAATGTTTAGGCCAGGCGT

Sequence 935

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAATTCATAAGATAAGGATTAAATGAATTTAA  
ATATATAAATCCCTTAGATAACAATGCTAGGCATATGTTAAGCACTATGTTAGTATCATC  
AAATGTTGTTGTTACTGTTATGGAATTTATCACAAATATGTAATTATGTTTCGTAGTG  
ATTATTCATCACCCCTACTGGACTCTAAGGTCTGTGAGGATATGTCTATTTGGTTTACCA  
CTGTATCCTCAACAACCTGCTGGTTGTCCCTATTGTAGGTGTTAGGTATTAAGTGCATGAT  
AGTGAATACATAAAGGTT

Sequence 936

CCCTTAGCGTGGTCGCGGCCGAGGTACTACAGATTAAGTATTAATATGCTGTGAGTGCAG  
ATAGAGAACAGAAACAGGCTGTTTGATTTACCATGGTCAATGCTCTGATGTGCCAAACA  
CAGGAGGTTGTGGGAACATATAGACAGTGACCAAACTTTTAATGAATACAGGAAGATTTT  
CTGGAAAAGATGACATGTAGCAGACAGCTGACAGACGAGTTTACCAGGTTTCAGAACTTAA  
GTGATAATAATCTTTTATCATAAAATTTAAGTGTTGAGAGATAAAAGTTTGAATT  
AAATGTTGAATGAAATGTGTTAT

Sequence 937

CCCTTTGAGCGGCCGCCCGGGCAGGTACACTAAAAATAGAATATAAGGCAGTGAAATCA  
AATCCTGGCTCACTTGAAGAAATAACAGTCTGTGGGCAACTNGGTTGTTTCTCAGGTAC  
CTCAGGGGACAGATGGTCCCTAAGGTGCAAAAGAATGAACTGGTGCTGATATATGACTGA  
TAAGTTTCTGTAACGGGCCACTGACCATTTCAATCCCAAGGAACATAAATTACCTTTTA  
GCCTGTGTATTTACACACAAATATGCAACCTGCAAACCTCTTCTGAGGACAGATGTCAAC



Table 1

TACTTTTTCATTTTTTTTTTACAGTCAAA

Sequence 938

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTATACTTCACCAGATATCTATAGAACATT  
CCACTCAGCAACAGCAGAATCCAGCAGAATATATATTCTTCTGAAGTGTATGTGGAACAT  
TCTCCGGGATAGACCATATGTTAAGTCATAAACGAGTTTCAATAAATTTAAAGGACTG  
ATATCATACCAAGTATGCTCTCTGACCAGAATGGAATGAAATTAGAAATCAATAACAGAA  
GAAATTTGGGAAATTCACAAATATGTAGAAATTAACAACTCCTTAAACAACCG  
TGGGTCAGAAAAGAAATCACAAGG

Sequence 939

CTTCCATACTCTTTAATTGGATATGCCAGTGTGTNTCANTAATTTCCAGTGGCTGTAAA  
ACTTTGAGAAATTTGTAGCTTTTAGAAACACATACCTGTATTGCCTGATTGCTTATTA  
AGTGATCTCTTAGAGGTTTCCAAAGTTATGAGTTTGAGTTTACAAGTGCAGTTTTTTCC  
ATGAAATTTTCAGTGGTGACAAATTATAGAATTTATCATTCAATTCAGTCTTAAGTAGAA  
ATAATTGCATATAATAAACAGGTTCTTGACTGTTCTTTT

Sequence 940

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGCCACTTCCATTTTGTAAAGTGAAGCCCAGA  
GAAGCAAAGAAATGTGCCCTAGGTCACATAGCTAGTCGGTGGCAGAGCTGTGATTGGCAG  
GTTGGTGAATGCCTCCAAAGCCCTCGACCTTCCCACTATACTTCACGCATCTCTAGAGA  
AGAGACAGAAGTAGCCAGGATGAAGGTCTTCAGGTTTAAAGAAGACTATGAAAAAGCAAA  
AGATTTTTGTCTTTCGTGGTTTTTACTATAAAGGAAAACTTTAAATAATAGCAAGAGTG  
CTATAGGTAAGATATCAGA

Sequence 941

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCGTGGTTGAACTTATTTGGGGACAGAATTGA  
GACGGAAAAATTTGATATCAAAGGAAGTATCAAACCCCTTGATGTGGTTAAGAGCATGGA  
TAGTGAACTAACCTCTGATGTATGGTGAGAGAGCAAAAGAGAAAGGATTGCAAAAGAAAC  
TGGAATGTAGAGGATGAACATATTGGTAATAATACTGGTGGAAATTGTTATTTCAGGAA  
AAAATAGCAATTATTCCTGTTTCATATCTCAAATCATTGTATGTTGTTTATTTAAAGGGAG  
ACATGGTAGAAGATATCAATATAAAAA

Sequence 942

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAAAATGGCTGTTTTTCCCACATTAGTCAG  
CTCTGGATTTTGCATGTGTGGGGCTTTTTTTTGATAGTTATTTGTTTTTATTTTAAAA  
ATTTATTTTGCCAAACCAGTAGAGAACAGCTGAGCATCTTCTCATGTATTTATTGGCCAT  
CTGCATTTCTGCTGCTTATTGGCCATGTATTTATTGGCCATTTGCCGTCTGCTGTGAAAT  
GTCTTAAATTTTTTGCCCATTTTTCTAGTGATAAAACACTGAAGCACATTTTTAAAGACT  
TCTGATGATTTTATTGT

Sequence 943

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTCAGGAGATACATTCTGCTAGTTTGGGGTG  
GTGTGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATTTTCAGTTCTATATTCTT  
ACTGATTAATGTGTATATACTAGTTCTGTTACTAAGGAGGGATGTTAAATTAATCCCTAG  
CTGTAATTGTGCATTAGTTTGTCTCTTTTCAGCTGTTCTAGCTTCATAAATTTTGGAGC  
TGTTAGGTGCATATACGTTTAGGATTATTTGTCTTCTTGGTGAAGTAGACCTTTTATCA  
TTAGGAAAC

Sequence 944

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAATCAACTTTCTTTTTACTATCTGGAAT  
AGGAAAATGTTCCATTCACTATGGTGACAAAATGTAAAATAGGAATATATTTCTGAGGA  
AAGTATAGGTATTTACAAATAGATAAACTATATTCTTAGATGAGAATACTTAATACCCAC  
TTTACAAAATTAATAATGAATTACAGCTTTTTTAAAAATAGATTAAGCTGGGTGTGATGAC  
ATGGCACCTATAGTCACAGCTACTCAGAAGGCTGAGGCAGGAGAAGCACCTGAGCCCAGG  
AGTTTGAGGCTCTAGTGAGCTAT

Sequence 945

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTGCAAGTCCAAAGAGGACCAGGAGGATCCC  
CGCCAAAAGAAGGGTAATCGATGGGACACCAAAGTTATCAGTCAAGTAAGGCAGAAATGC  
TTGAATGAATAAATGTATATAGATAGAAAGTAGAGACCTTGATAAAGTCAAACTCCTTGC  
CTTTACAAGTGTGTGTTTCAGCAGCCATGCAAGGGAGATGCCCATCTGGCAGTGGCCCAGG  
GCAAGGTGTCAGAGCCCTAGTGGCAGGGAGATGGCATCCACATATGAGGGAGGGTGACAT  
GGTGCTAACTGGGCATCTACATAGGGCAGGG

Table 1

## Sequence 946

CCCTTTTCGAGCGGCCGCGCCGCGGCAGGTAAGTGCATATTTAATGAATTATTTTATAAATTGC  
TGTTGTGAAGCATTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTNG  
ACTTTTATTGCAACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGA  
AGCATTTCCTGGGAGGTTTCTTTTTCTGGTTATGAAAATAATATGCTTATGGGGAAAA  
ATTGGAAAATAGAAACNAGTATCTAGAAGAAAAATCACTCATAATTCCANCAACCTGTTA  
ATACTTTGTCTTTTCTTACAGTTTCTAATA

## Sequence 947

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGTAGATGAGAACTACTTATTTAGAGTGGCAG  
AGCATGCTATAGAAACAAAATATGAGTAATTCTAAGTGTAGTTATGTTATATTAGCATAG  
TGAGATAGTAACATTAATAGAATTCCTTAGGTGGAATTTCTTTAATGC

## Sequence 948

CCCTTTTCGAGCGGCCGCGCCGCGGCAGGTAAGTGCATATTTAATGAATTATTTTATAAATTGC  
TGTTGTGAAGCATTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTGA  
CTTTTATTGCAACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGAA  
GCATTTCCTGGGAGGTTTCTTTTTCTGGTTATGAAAATAATATGCTTATGGGGAAAA  
TTGGAAAATAGAAACAAGTATCTAGAAGAAAAATCACTCATAATTCCAGCACCTGTAA  
TACTTTGTCTTTTCTTACAGT

## Sequence 949

CCCTTTTCGAGCGGCCGCGCCGCGGCAGGTACCAAGAATAAATTGTGATACGATAGGTGACT  
TATGAGTAGCACAGAATGTAATAGGCCCATCTCTACCTAGTTCTGGTCACCACACTTCTG  
TCAAGGTAGCTCGGAGAGACGGTGTCTACTTATTCACCACATCATGAGATCACCTCAAAC  
TGAGCAGGCAGCCAATGAAAACCGTGAGCTTTCTTTACATTAACCTTTCTGAAAGTCATTT  
TTTCTTATTCCACTTTGTGCTTTTTTTAAAGCTGCAGCTTCATGGAATTTAATCCTGG  
TATTTAAACACT

## Sequence 950

CCCTTTTCGAGCGGCCGCGCCGCGGCAGGTAAGTGGTAGGTTGATCTCTTTCATTCTCATGGT  
TTAATTACCATCTATTCAGTACTTCTCCAAAAGTATCTATAGTCCAAGACTGTTTC  
TAAAAGGTCTGCACCCACATATGCAAATAAATA

## Sequence 951

CGGCCGAGGTACTCTTAGGAAAGAGTAATGGGGTTGAGGATGGTTAATTTAGCCCATCCT  
AACTTCTAGTGAGATTTTTTTCANAATATTTTGGATGGTTCTCTCACTTTNGTTATTAAG  
CATTAGGGAAGAAGATTCTGCAGCCTACTCAGGTGAGCCAATCTCATGGCATTGAACANA  
NAANATATGTTTTCACGTCTTTAACCAANTGTTTTTCATAGTGNAAGTCAGGCCTTTCTCC  
TTTGATCTAAGTGAACCAAGAGGTTAGATACTCCCTTNTCTTAGTTATATAATGGGCT  
TCATGTAAGT

## Sequence 952

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCTGTAGGTCTACAGGTAAAAAGCTATTACG  
TTGCAAAACATTATAACGTAATGTAAGGTCTGGATTACATGCCTAAAAATCCAATGATTCT  
TGGAACCATCAAATCTGTAAAGACTGAAAAGAATACCAATGTTTAAATATATCTATAAAA  
TGCAGGTCAAGGGGCTAAGAAAATTGCAACACTAGAAAACCAACAACTTAGGTTGTTCT  
AACATACATACACAAATACAGGAGGGACGTTTATGGGTACATCTGCGAAACATTTTTTC  
CCAAAAAGCTGAATTTT

## Sequence 953

CCCTTAGCGTGGTCGCGGCCGAGGTACCACCAATAATTATGCCACAATTTTATCCTAAA  
TAAGAGTGATTCCCTGTTCTTTTTCTACAGAACATGTTTCTGTCCGCAAGAGAAATAAG  
AAAACATGACCCCTCCATCCAGAACCAAACTAACTCAGGAGTGATTAGAATCACCTGTG  
GGCATTTTCCCCCAAACCCATACTCTGTAGATTCTGATAAGCGCTCTTAAAGAAGCT  
ACAGCTCTTCCCATTCCTATCTGAAAGCAAGGAACCACTGGCTTGGTCAGGAAACAG  
GCATACACATCAGATGTGATTATAA

## Sequence 954

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGATGTTGTAAAATTTACTATAATTAATAGGA  
ATTAAATTAATGAATGCCAAGGGGCGAGGCCACACTTCCTATGATAGTTCTTGCTATAAG  
GTGCTATTTTGTNTCTACATTTACTCCATAGTAAGCTNTTGTGAGAAAAAATG  
CCAGTTTGGTGCGTAGTAGATACGCAAGGCGCTGNGAAAGGGACNGATGACNCCATTACC  
CCATGGGTACAGAATGTATAATGCTTCCCCTCTCAAACCTGGGTTGNTTGGNTTTTTT

Table I

## TACA

## Sequence 955

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTAAGCCAGATTCATGGTATGAAGGCAGCAG  
CATAGCACCTCCATTGACCCACATGGGGGCCTGCCTTGGGCTTCATCAGCCCTTTGGAGT  
CTCAGATCCCTCACCTGTTAAAGGAGAGTAATACTACCCACTTACCTTTTTGGGTGTTG  
TGAACACACATAAGACAGTATTAGGAGAAGTAAGGTCTGAGGGCTGGGCTTTGGACCCA  
GCGGCCCTAGGTAGAGGCCTGTTGAATTGGATGACAGTGAACCTTGCAGCATTTCTAA  
CCTCAGAAATTCAAGA

## Sequence 956

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTGCTTTATTCAGTCTAGGTAAGAAATGTAA  
TGGATGTGTGCAGGTGACATAATTTAGGGGATAAGGTAAAAATTAGATGAAGCCCAAGC  
AAATATTCTTAAAAAGAAAACTTAGGATTTTTTTTACAAAAGTTAACTTAAATGCAT  
TATCTAGAATAATGTTATAAATCAACGTATAGAGACGTTAGTGAATAGTTCCCTTCATTA  
GGATGTTGAAGGAATATGGTTTCAATATTCACAAATGTCGTGATGCCTATAAATTTTTT  
TACAAACAAGAGTATTGT

## Sequence 957

CCCTTAGCGGCCGCCCGGGCAGGTACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTG  
TGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATTTTCAGTTCTATATTCTTACT  
GATTAATGTGTATATACTAGTTCTGTTACTAAGGAGGGATGTTAAATTAATCCCTAGCTG  
TAATTGTGCATTAGTTTGTCTCTTTTCAGCTGTTCTAGCTCCATAAATTTTTGGAGCTGT  
TAGGTGCATATACGTTTAGGATTATTTGTCTTCTGGTGAAGTACCTTTTATCATT  
GAAACTGTCCATATAACCA

## Sequence 958

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCCATAATATAATCTTTTAAATGGGCAACTTC  
TAAATATTGATACAACCATTAATAATAATGCTTATAGGGTAAAAGAAAATTTTTGAAGCA  
CTGAATTCAGTAACCTGGGTGATGGTCCAATTTGCTCACTACTTCATATCTTTTATGTA  
GATTATTCCTATAAACATGTTCCCTAAATCCACATCAGTTTGTAAGTCAATGGATTAA  
ATTATTCAAATGTAGCTATTTAACGGTCAGTAACAATGCCTAGAAACCTAT

## Sequence 959

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAAANA  
CAGTCTTGCTATTTTAAAGTCCAGGCTGGACTCAAACCTCCTGAANATTGCTCAAGCAATCT  
TCCACCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGATGTCCAGCTTAGGTTCCAG  
CTNTTAAANANTTGTCAAGTGTGGTGGGCGAGGTGGGTACATACACATATAATTATAAG  
GTAAAAAATCACAACCTACTACAAGAAAGGTGCAACATTTATGAGAAAACCAAGAAGGG

## Sequence 960

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTC  
AAAAAAATTATCAGCANAAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTTATCATC  
TCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGA  
TATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCT  
CTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTAGGAGAG  
CCTCCATGGGCCAAAAAGCTGTTGTAGAGAACATGGATCCTGAGGGGGGTAAATGGGC  
AGATAATTCTAGCCACAGATTG

## Sequence 961

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTC  
AAAAAAATTATCAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTTATCATC  
TCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGA  
TATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCT  
CTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTAGGAGAG  
CCTCCATGGGCCAAAAAGCTGTGTAGAGAACATGGATCCTGAGGGGGTAAATGG

## Sequence 962

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCT  
ACAACATTTCAATGATGCATATTTTTTTTCAGATGCATTCTTTGATTGAATTTAAAGT  
CAAGCTTGTGCTTCTGGATGGTTGCTTTGTCAGTGAACACTTGGATTTGGAAAATACAGC  
ACCTGGGTTGGTTTTGAGAGAAAATGGTTTCAACTTTATAATTACAGTTTTAACCACCAC  
ACAACAAAATTAGGATGGTAGTGAATGGAATAAATCAAATGCAAGGTTTTAGTTTAA

Table 1

TANAACAATGTCATCCTTTAATAATCTTTAAAGAAGAACAATAAATACCCAATNACA  
AAATTTGAAAATTAGGGTCAAACCT

Sequence 963

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCT  
ACAACATTTCAATGATGCATATTTTTTTTTCAGATGCATTCTTTGATTGAATTTAAAGT  
CAAGCTTGTGCTTCTGGATGGTTGCTTTGTCAGTGAACACTTGGATTTGGAAAATACAGC  
ACCTGGGTTGGTTTTGAGAGAAAATGGTTTCAACTTTATAATTACAGTTTTAACCCACCAC  
AACAAACAAAATTAGGATGGTAGTGAATGGAACTAAATCAAATGCAAGGTTTTAGTTTAA  
TAGAACAATGTCATCCTTTAATAATCTTTAAAGAAGAACAATAAATACCCAATAACAA  
AATTGAAATA

Sequence 964

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTGC  
CAGCCTCTGAACAGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGC  
AACTGCTGAATTACCATACAGGGAAGAATGAATTCAGAAAATCCCATGCAAGATAGGC  
TCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAAT  
AGAAGGGAAACCTATACAAAGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAAT  
AATGATG

Sequence 965

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTGC  
CCAGCCTCTGAACAGAAGGCTGTTCTATCCACACTATCACAAGCCTGGTGGAGTTGAGGC  
AACTGCTGAATTACCATACAGGGAAGAATGAATTCAGAAAATCCCATGCAAGATAGGC  
TCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAAT  
AGAAGGGAAACCTATACAAAGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAAT  
AATGATGTTTACAATTTCTTAAGAGGAAAAGGAGCATTANCATCAGTGAAACAAAAGTAG  
GGCTATAGAAAAAACAATACTTATGAAAAAACCATTGGAAATTTTAGATGGAAAAGCC  
TGAAAGTAAAAAATCAACACATGGTCTAAAAGAATAAACTGCACACAGCTTGAAGGGAA  
AATTAGTTAATTTTACCNAAGAAA

Sequence 966

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAAGGATGAAAATGTTTTCTGTC  
AGAATGAAATTCAGAAAACCTTAAAGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAA  
AATCGCAATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACATGAG  
CCATCATGAGGAGAACAATTAGCAGAAACCAACCAGAACTGACATACATACCAGAATTG  
GCACACAAAAGGATATTTAAACAATAACAACCTGCGTTCCATATGTTCAAAAAGTTAGAAA  
CATGAAAGA

Sequence 967

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAAGGATGAAAATGTTTTCTGTC  
AGAATGAAATTCAGAAAACCTTAAAGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAA  
AATCGCAATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACATGAG  
CCATCATGAGGAGAACAATTAGCAGAAACCAACCAGAACTGACATACATACCAGAATTG  
GCACACAAAAGGATATTTAAACAATAACAACCTGCGTTCCATATGTTCAAAAAGTTAGAAA  
CATGAAAAGATACAAAAATAAAATCAAACCTCTAAAGATGAGAACTGTAGTGTTTGGAGG  
GGAAAAA

Sequence 968

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCGGTCTGTGCCCCATCACCATTCTAA  
AGCACCCCTACCCTCATGGCAGTGTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGA  
TACAGTCAGCTGACGTCTGGCACCCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTC  
GGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTAAATGGAAAGTATATAAT  
CCCTTAATGTCAGACCTTGAGTGGGCACTCAGCTTTATTAATTTATTTAGGTAATAAAAT  
TTACCTTCCTAATTAATTTCTCAGTAAGTCTGGGAAGCTGTATTATTTAAACATNTTG  
CACAATTGT

Sequence 969

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCGGTCTGTGCCCCATCACCATTCTAA  
AGCACCCCTACCCTCATGGCAGTGTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGA  
TACAGTCAGCTGACGTCTGGCACCCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTC  
GGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTAAATGGAAAGTATATAAT  
CCCTTAATGTCAAGACCTTGAGTGGCACTCAAGCTTTATTAATTTATTTAGGTAATAAAAT

Table 1

TTTACCTTCCTAAATTAATTCTCAAGTAGTCCTGGGAGCTGTATTTATTTTAAACAT

Sequence 970

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGATTATGATAGCCTCTNAAAACAAATTGGA  
GGTTATAACCTTTTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTCT  
TAAGTTTTTGGTAGAAAAGTAGCCANTNGAAGTCATGTGGGTTTGGGATTNTTCTTTGT  
ANGANAGGNTCCTAATTACTAATNAGCTTTTCAAAATAN

Sequence 971

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGATTATGATAGCCTCTTAAAACAAATTGGA  
GGTTATAACCTTTTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTCT  
TAAGTTTTTGGTAGAAAAGTAGCCAGTGAAGTCATGTGGGTTTGGATTTTCTTTGTAGGAA  
GGTTCCTAATTACTAATTAGCTTTTCAAAATAGTTATGAGAATATTCAGGTTTTCTATT  
CTTCCTGTGTCAATTTTGTGTCTTTTCTATAAATTTGTTTCATCTATAATTTTAAATATT  
TTTGGTATAATTTTTTCAAAAATAATCTTGATTTATTTTACAAGGACAGGGGATCTTTA

Sequence 972

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGGGACAGAGTGAGACCCTGNCTN  
AAAAAANNTTTTTTGNNTNTGANNNNNGANTAANGAAAAGAAAAGGAAAAGAAAAACA  
AGAAATTAGCTCATGATAGNCAGCTTTATATTATNAATTATGTGACACTTTGGATATTTCT  
AAAAGCACATTCACAAAGTGATTGTCACTTAAATACCTCAAAATTTCCCTGTTATACAT  
GCAGATCATTCCCCATTCAACCCTGGGTATGGGACTGAAGTGTACCTTGCCCGGGGCG  
GGCCCGCTTCGAAAAAGGGGCGAAATTCAGCNACACTGGGGCGGGCCGTTTACTTAGT  
GGGATTCCCGAGNCTTCGGGTTACCCCAA

Sequence 973

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGACCCTGTCTC  
AAAAAAAAAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAACAAGA  
AATTAGCTCATGATAGCAGCTTATATTATAATTATGTGACACTTTGGATATTTCAAAGCA  
CATTCACAAAGNGTATGTCACTTAAATACCTCAAAATTTCCCTGTTATACATGCAGATCA  
TTCCCCATTAGCCCTGGTATGGACTGAAGTGTGTACCTGCCCGGGCGGCCGCTCGAAAG  
GG

Sequence 974

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTA  
TACAAACCCNANACTGTCTACACCCAGACTTTATTCTTCTACAACCAAATTCCTCAAACA  
CACAATCTTGACCAGTANCAGTTGAAANGGGAGTTTAAGGTGGGGGTGA

Sequence 975

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTACCAAACCTGCATNAAAAATTCGGT  
NGGGGCNAANAAANGNNNTTNCCNANCCCTCGAGCAGTACCATGCTATATTGGTCACTG  
TAGCTCTGGTACATANTTTTTNGAAGATTGGGGTAATGTGGATTCTCTAGCTTTGTTAAG  
CTCTGTTGTTTTCACTTAGTATTACTTTAACTATTAGGGCTTCTTTTTTGGTTNCATATT  
AAATTTGTAAATAAAATTT

Sequence 976

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTCTCATTTGTCACTTTTCAACACTTCCTGG  
CANGCAGGCANCATAACTGGTCCTGCTGGGTGATCCAGACCACACTCTGCAACTCTTTCT  
TTTGAGCCAAGGCTCCCCTACTGTCTTTTCATTTTATGTCAAGGCAGGGGGAAGACCTCA  
AAGGGCTCTTGCATCCCAGTCTCACTTCCAAGAGAGGCACTGAGGCCCTCCAGGATGTG  
GGGACAGGAACTTTGGGGCCAAGCCGGGGCTGTCCAGAAGATCACCAGGAGGGGCTTAA  
TTAGTTNGAAAAGGGAGNAGGTCCTTT

Sequence 977

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAAAAAGTAAACAAATTTAACTGAAGCATGG  
CTATTAGTTAGTGATTCTTTGTAGATTTCTGGAAAGTCTTGTGTTTGTATTAAACAT  
TAACTCTGCTGTATGCTGTAAATACACTGCTAAGATCAATATTGAAAAACGAACAATAAT  
ACCAATTCATATGGACCTTCAAAATAGTCTTATAAAATTTTATGGATATTGGNATTAT  
CCCAAGCCAACCTGACTTTTGAGGACTGACAAATAATATCTTAACTTTAACCCAGGGGTG  
GATTTCTTGCCATTTNCCTTTTGGNTTT

Sequence 978

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGACTTCACAACACCAACCACAGGTCTCAAGG  
TCAAAAAATGAGCTAGGAGTAAAGTATCTGCTCCAGAATCTACCCCATCCAGAAAGAG

Table 1

CAACCCAACTGTGTCCTGAGTGGCTCTTAGAGTTTAAGACTCTGAATGAATGCCTAAATT  
TANAAAGGGTGTGGACCAAGGGATTTTNGGTTAATGTATCNCTAAAAGCANGCTGACTGC  
CAGGATTTCAAGT

Sequence 979

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTGGCAGCAGAGTAGGCACTAATATGTGTTG  
AATGAGTAGGTGAAATAAACAAAAACCTAATGGCGATGGAATTTTATGGAAATAAGTAA  
CTTCATTATTGCTGAAAATACCGCAGATAAATAGAGGGAGGCAGTGTAATAGAGTGGAAA  
GAGCAGTAGACCAGGAGTCAGACAGTCGAGGATCTCATTCTAAATTTGAAGGTGAATAGC  
CATGTGGCTTTAGACAGGACTCTGAACCACCTTGTTTTCTTATCTGTAAAAGGGGGGAAG  
TCATAATAGCTACTCCTGCCTAACTCATANGTTGTTGAGAAAATGAAGTGATT

Sequence 980

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTACCTTTTATGTATGCTGGAATAAGAACT  
TGTGTCTACATGTCATGTAGAAACAATGGAAGGATAGGCAAGGAAAATGAAAAAAAATGA  
TAACCTATGGGGAGTGATGGCCACTAGATGACTGGGGACAGGGGCTGGTGAGTGAGCGCA  
ATTATCTATTTAAACAATCAGAAATGCTCCCTAAATTACAAGTTTCTAGTTAAATGCAGT  
AAGAAAATCCCCACAAGCTCTGCAAAATAAGTTCTGTCAATCAAATCTTACATGATGCAT  
TAACTGAGCTATTTTAAAATACTACCATGGAATTCATCTTTAAAGGTGACCTTTGTAA  
AG

Sequence 981

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTATTGTTGACTGGCTAACAGAGGACCAATTA  
ATAAGCCAAAGAAATGGCTCTTTAACAATGAACATTTCTGCCATCAACTGACAGATCCCA  
GGAATAAATGTTTTCCAGTGAGGAGACTTCTCTGGTTTTTCAGAACACCTCTGGCTGCCCC  
TGCCCCACCCCATAGAAGGGCTATCCCTCCAGGTCAGGTTAGCATCATCACCTAGAGCCAA  
CAAGTCAAGGAGGTGATGGTTTGCCCTTGACATCTCTACCCAGACCAGACTCCACTGGAG  
AAGACTCTCCCTTTTTTTCATCACTGCCCTACCTAGTTAGGTTGGTCTGC

Sequence 982

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGATCAGATGGATTGAAACATGACAGCCCCA  
TTTCATCTGGCCGGTTAAGGTCCTCATGGAATGAAAAACACTTTCCGGGCACTCTCCTATG  
AGAGAGAGAATGGGTTTCTTTAATTGCCAGATTGCTGAACACAGCCTCAGCTACTTCTA  
GGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATTCTTGGGGAAAAAATTAG  
CATTCAGTGCCAGCTCTCTAAAGTGTGGATTCTGGATTCTGGTAGAAGCCAGTAAAGAAA  
CGTTTTTCTCTGGAGTGGAAGCCTAGTAAGATTTATTT

Sequence 983

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGACATTTCAAGACATGGCCCAATGCACAAG  
CAACTTCCCAAAGCTGTAATTCACGAGATTCCTCAGGGTCCTCTAAGCTCCTTGAGGGCA  
GAACTTATCTTTGTATTACAGCTAGCCTTCAATCAGTAGGTGTTGAGCTGATTTTCTTT  
TTCTTTTTTAACTCAGAAGTTAAGTTCCAGCTTCAGTGGCTATGCCAGATGGTCTGAT  
TCTGAAGGACAAGAGAATTCAGNTGGCATAAGCCCTGTGCTTGGCATGTAGTANGTTTCT  
CAGTAACTTTANCTGGCGGGA

Sequence 984

GAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTAGTAAAGATGGGGTTTTGCC  
ATGTTGGCTAGGCTGGTCTCGAATCCTGACCTCAGGTGATCCACCCACTTCGGCCTCCC  
AAAGTGCTGAAATTACAGGTGTGAGCCACCGCGCCCGGCCGAGGACACTATTTTTTTGCT  
TTGGAAGAAATGAATCCTAGTTTTGTTTCAGAACTGTCAACAGCATTGTGCCTCTTCTA  
TGACTACTAAATTTCAAGCAAAGAGAGCTGAGTTGGGGGTAAAAGCAGGGCTATTCCCCG  
CCTTCAGACAATGCTTGTCCTTATCAAGGGCAGACTGCTGTCTGG

Sequence 985

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACTTAATTTTTTTTTTTTTTTTATAGTAGAGA  
TGAGGTTTTACCATGTTGGCCAGGCTGGTCTCGAATCCTGACCTCAGGTGATCCACCTG  
CCTCAGCCTCCCAAAGTGTTGGGATTACAGGAGTGAGCCACCGCACCCAGCCTGTGTGTG  
TTTTTTTACTTAAAAATTTTAAATTTAAATTTAAATGTTTAAATTTGACAAATAATTTAT  
ATATGGGGTATAATGTGATGTTTTGATGTATACATTGTTGTATACGTTGTAATTGTATAC  
ATTGGGGTTGTATACATTGGGATGTATACCATTGAAATTATTTGNATCCAGAAAAATTA

Sequence 986

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGAATACATAATTTTGAATGGAGTCAGGGC  
TTTCCTAATGATCCATTTTGTAATTCACCTAACAGCTGAGGGAAGGTCCAGAGAAGGAAG

Table 1

AACTCAAGGTTAGTAGACAACTTGATTTGAGTTGCACTGGCTGCCTTCTCTTTTTGGT  
CCCCTAAAGAGTATTTATCATCTTAGATTACGCTTAAGTTGTGGACAAATATCAAGGGGA  
AAAGTATTTACAGTTAACGTTGGAATCACACGGTTTTCCGGGGTTGTGCCTCTTACCCT  
TCAACTTTGGTGGTTTCTAAAGAGGGACCGATTATTAGTTGCTTTCCTTAAGGAAGGGGA  
AG

## Sequence 987

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGCCTAGAAAATATTTTTTTTTTGAATGG  
AGTCTCACTGTGTGCGCCAGGCTGGAGTGCAGTGGCNCAAATCTTCNTCTNAAAAAAAAA  
AAAAACAAAACAAAATAAATCTTACTCAAATATCACTTTCTGTAAATGTTCTTAATTC  
CTTCAATCATCCCCCTCTTCTAAGTNTNACAGCACTTTCTTCCACTACGGCAGCATTAC  
ACGCCAACTACTCACCAGTTCACGTTTTCCGCCCTNTNTCCCACTTGCCCAATCACAGAN  
TTCCTAAAGAACCAGGACTATGTTCTACTAGTCTTTGTAGCCACTGCACT

## Sequence 988

CCCTTCGAGCGGCCGCGCCGAGGACTCCTGTTTCTACAAATTTATCTTATAATAAT  
TTGTCAAATGTTGAGTGCACAGATTTATTCATTGCAGCATTTGGTTTTTCATATCAAAAG  
ATGGGAAACATTGTGCAACAATGCCCATCAGTAGTGGAATTGATTAAATAAATTAGGTAT  
ATCCAATAATTGAATATTATGCAAGTATATAAAAAATAAGAATCATGAATATGGAAAGAT  
TTCGAAAATATATTGCTAAGATTAAGGAAAGGAGGGCAGAAGAAAAAAGTTGGGTA  
AAAAAACCCAGAAATGTTTACTAATAATTATATTTAAAAACTCATAGGATAAACAAGG  
AAGGGTAATGAAATAATTAAT

## Sequence 989

CCCTTAGNNTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGTAGAN  
ACAGGGTCTCACACTTTGTTGCCAGGGCTGGTCTNGAATTNCTTGACTCAANCAATCCT  
CCCGTGTAGCCTCCCAAATGCTAGGGTTATAGGTGTGAGCCACCCTGCCAGCCTATG  
TTTATTTAGATGTTCAAACAACAACAAAAATAACACACTNGAAAAATGATCAGAGA  
ATACGTGTTAAATGAGAAATNGTTCAGGGCTTTTATAAATTTGTGACCTCCACCCTTCCC  
CTTANTCCTTTTTCTCCATAAACTCTAATTNCAAATTTTACTACCACAGCAAAAAAGAGG

## Sequence 990

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGATTGTCTGTGTTGAGACTATTACAGAGC  
TCCAAAAATTAATAAAAAATAAATTTTACAGAAATACATATTTGCATTGGAATATTT  
AAGAAAGTTGAGTTTGGATGCCACAAGATTATTGGAGTNATAGGNAGCTGGGCACAGTGG  
CTCACACCTGTAATCCTAGCACTTTGGG

## Sequence 991

CCCTTAGCGTGGTCGCGGCCGCGGTACCCTAAACTTAAAGTATAATAATAATAAAATTA  
AAAAAACCAAAAACAAAGATTAACAGAAAACAAAACANCAAAAAAATCCCAGCATATAC  
ATTGAGTCATTTGCAGGTTTGGGAGGGGGGGAAATGCTTTTTTGTATTAGGAGAAAGGGA  
AGCTTTTCATTTTAAATGGCTATATTACTTAAAGTTTGCANTAAATATTTATTACTTTC

## Sequence 992

TGCTCGCTGGACAGAGGGCAACCCAACACTCTAGCCTAAAGCCCCGTGACACCTGCAGCA  
GGTGCTTGCCACGCNTTGCACCCGTTCCCGAANTAAAAAGTCGCCGGTCTTANAAGGCG  
NCGAGNTCTTGGTNGACCTTTGNGCANCCCCACCCGTTGCCAGTCTTGAATGNGGTTACC  
CCANAGNCGCCNCAGGCTGACATGGGAAAGGATGTTCTTTGGGAAAAAAAAAATGGAAC  
CCCGGTGGGTAGNCCCTTGNGGGGCNTGGGNAGCCCCCGGANGGGGTCCCCGNCNGT  
T  
TGGCCGGGGCNCAAAATTCANAAGNCAAGGGTTGGGGGNATCCCCGNGGGGAACCTTGGG  
G

## Sequence 993

ATGCAGAATTCGCCCTTTGAGCGGCCGCGCCGGCAGGTACCCCATCAGAGTGTCTCTT  
GGCTTNCCTGTATGTAAACCTTACCTAATACTTTAGTCACCACTCTTTCTGTGTTTCATT  
TCCCTTTTAAGNCAAAAAANGGGANGNAAGTAAGTTGGNNATTTGNGGTTTCAAAGNGNC  
CAATTGNCTTTTGNCTTTTTTCA

## Sequence 994

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTTGTTCTCAAACCTTTCATGTTTGTGTATA  
CAAATCAGCTGAGGCCTTCACTAACTACAGATTCCATGGCCTGGCCCTCAGAGATTTTG  
ACTCAACAGGTCTGAGTTGGGACTAGAAATATGCATTGCTAATAGGCACCCTGACAATTC

Table 1

CGATGTAGGTGGTCCTTAGAACATATTTTGAGAAATATATTCTGTAGTCTGGCAGATAAA  
GAATTCCTTAACAAGGAGGTCTGCCCGGGCGGCCGNTCGAAAGGGCGA

Sequence 995

CCCTTAGCGTGGTCGCGGCCGAGGTACCATCATCTGTTTCCCTCTGGTTATAAATCTTTA  
ATGAAAACGGATTTAAAAAGTCACATTATGATGCTCGAAGCTCTGACCTCTCATCACAAT  
GAGAAGCAAAAGACATGCCATAAAGATGATATTTCCACAGGAACGATATTAGAATTATG  
TGATGCAATCTCATCCAAGGTATGGTATCAAACCAGACACAGCTAAAAATGTATCATAA  
TAGCAAGGATACAGTAGCAAGGATGGGCCTCAATAAACATTTAAAGTGGAATAATCTTC  
TCTAACTCATATCAAGTACCTGCCCGGGCGGC

Sequence 996

CCCTTTGAGCGGCCGCCCCGGGCAGGTACCAAAATAGATAAGGATCCTGTTTTTTGAAAT  
GAACCCAGTTGCGCCTTAGGCATTGTGAGTTGGCTCATTTCAAGCCAGTTGTAATATGG  
TTTTTTATTCTCTAAATTTGCGGACCTGATGCTAAGGAATGTGAATATACAGTTAGGTTT  
CTGCGAACCCCTGTGTTGGTTCAAAAAGGCTGGTGGAGGGAAATTTATGACACTAAATGCT  
TATATTAGAAAAGAGGAAAATTGGCCGAGCACGGTGGCTCATGCCTGTAATCCAGCATT  
TTGGGAGGCCGAGCCAGGTGGAT

Sequence 997

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGCAACAATAGCTACAAAGGATAGGATACTC  
AATTGCAAGTAGACTTTTCAAATTAATTCACCTACTTCTATTCCCACTCAATCTAGA  
ATATTATTGGTGATAGTGAAGAGACCAGACAGATGACATTACTTCCAAATTTTACCAATC  
TAATTGTTTTTACTCACACCTGTNGATGTCATTTAAAAATGTGAATATTAATTTCTTCA  
AACTACTCCAATTTAAGTAATGAGTTAGAGCTTTGGCAACCATTAAAGGCTCTCTTTTCC  
CAACTCTAACAATATGTGGTAATGTCTTCCCTGACTTCATTTTATGTTTACACAAAATCA  
AAGGTTATATTTAAAGGGTTTTCTACATTTTGGGATATTTACCTCCTTGNAAATTTAG  
NNTTATATGTCTGGATTACAAAAACATATNATATTCAAAGAATTTNTAACACTTAGAGGT  
AGAAGTGAAATTACAGGTTGAAGAATTATTTAA

Sequence 998

CCCTTAGCGTGGTCGCGGCCGAGGTACGTGTTTTACTTGGTGCTGTAGGTAATGCTAAT  
CATGATAAATTTGAGAACCACTCTAGGAGTAGTATGTTTCCAACAGTTTAGGTCATGAGC  
AACCTTGAGAAATACACTTTTAATCATGACTCAGCACACACACTCACATGCACGTGTGAC  
TTAGACGTTCCATGAACAATGCTTATCTTACAGTGTGTTTTCTGCTCTGGTATTTTAC  
TTATATTCTATTAAATAGATATGTGTGTATAAACTTATTGATATAAAAATGTGGTCATGA  
TCCACTAAAGTGATTTTACAAGCCACTAATGG

Sequence 999

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAACTGGGTTNTCCTTTTTNATNATTCTGN  
AAAATNANAAAAACCNAANCCTGTTNATNTAGGGTTTTNATGGNTANAGTTGNANAAAA  
CTGNNTTTTGTNAGTTTNAANAAGNCCATTNAAATGAGTNAAATTTTNAANAANCCTCNA  
AANCNAACAAANCTGNAAAAAAGTAGGGGNGGGGTNAAATGGTTNATTTNAAATGTTG  
CCTTCANTANCATGAGAGGG

Sequence 1000

CCCTTTGAGCGGCCGCCCCGGGCAGGTACTAACTGAATATTTATTTAAAAAAGCATTAA  
TTATCTATCTATATAACTAAATCTATCAAATATTCTTTAAACACGAACCAAAGTTAATC  
TGAAACTCTTCTGTGAAAAAAGTCATGTATTATATGCCTTCAACACAGAATTTGTCATT  
ATTTCTGTGGCATTATACTATGCCCTTGTGTCATATGCTTTTTTCCCATAGAGCATT  
TTCCCATAGAACTTTGTATTCTCCTCCACTTCTACCACCTTCTTTGAAGAACTCTATT  
CCATTTCTTGGACTAAATTAGGAA

Sequence 1001

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGAATATGGTATATCTTTCATTTATTTAGC  
TCTTTTAAATTTGTTTGGTAATATCTGTGATTTTTTTTTTTTTTTTGGTATGGAGG  
TCTTACATCTTTGTAAATTTATCTTAATCTTTGGATTTTGACATTATCATAAAGA  
AAATTTTCACTGACTTTTCCAGTTTGTCTGCTGGCCTAAACATATANTTAATNTTTAT  
ATTTAATCTTGTATCCTATNACTTTGCTAAATTCATATA

Sequence 1002

CCCTTTGAGCGGCCGCCCCGGGCAGGTACTACTTGGCATTAAATTAGATTGTGATCATAAG  
TCAAAATGTCATTGGTTATAAAGTGGTCATCAGACCATGCAGACTATTACTAATATTGGT



Table 1

TATGTTTTAGTTTATTGCAGTGAAAAACAAAATTTAAAAGTTATTGTAGAGAATTATCA  
TACCCCCCAAAAAGTGTCAATTGGTCCTCCAGGACTCTGTAGTCCCCATCCAAGAAAGACT  
GTGATAATTGTCAAGGGGTTAGTATGGTCTGAGCATGGTTGATGGTGCTCTGTCAATTCTG  
GTATTAACAACCTGCCAAATGTCTTGATTACATGTCTAAAAAAGTGAGGGGAAGAAGT  
GTAGGACAAATGCAAAATAAAATAACACATTTAGCTATACTTTTAAGTATTTTTTATT

Sequence 1003

CCCTTAGCGTGGTCGCGGCCGAGGTACATCTGTTTCTGAAAGCATTTTTCACTGAACCAA  
TTTTCTATACCTTTTTCTTGATTCTTTTCTTAGCTTTTGTTTATATGGTTGCTATATT  
TTCAAGCCTCATACCAGTCATATAAAACCATGATAAACTTCATCAAAGCATACTTGGG  
CAAATTTCAATTATCAAGTAAATGTAAAGAAAAATTTTTACTAGTTTGAAATAGAT  
CTACATGTTTGATTTTCTTTCTTCCCTCCCTTTTGTCTTGTCTTCTCTCCCTTT  
CCTAAAAAGTTAATGGCTATCATTATCTTACCACAAATTAGTGTTTGGTATACCCATAA

Sequence 1004

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTGAACTTAAAAGTTGAACAACAAAAAAGA  
AGGAAAATGCGTTAATACCTTATTGTAATTATTATTTTTGGAAGACTATTTTTATATT  
CAGAAGAAGTGTCAAGTGTGAGAGTCAGCAGAAAGGATTATTTCTCCATTACCTACAACAAGGT  
TTTAAATGACTGGATAGATAGAAATCTCTTCAACTTAACTGCTTAGCACATTGCATTT  
TCTCTGTTTCAAGTTAGTTTCCAAAGGATTACTGACTTTTACCTAATTTGCTAAGGGA  
TGTCAGGCCTTAATGACATATTTCTCTCAAATAAAGGATACAACATGC

Sequence 1005

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCGTATTACAGCGCCACCCACTGGCTAGAAG  
TCCTCATAGCACATATGAGATGTAGCCATAAAATAGATGAATTCCTTGAAATANGGAATAT  
AACACTTGACTATTCTGATTCAGNAGAACATAAAAAATGTTCTAACAAAACAGAACCAGA  
CACATTTATATNTATTTCTACAAGTNAACAGAATATCTATTAGA

Sequence 1006

CCCTTCGAGCGGCCGCCCGGGCAGGTACATAGTTCTGCTTGCAATTGGTCCCATTACAAT  
CCTGTCTAAATCCTGAAGTAAAAATGAATACCATAGTGAAGAAATTACTTGTGCATGTGA  
AAGAGGCTGGTCCAACCTCCTTAATTGCAACAGGGATTGATTCTTCTACTAGTAGTTAGG  
AAAGGTTGCATTAATATTCAGTAGTTAAATGTGCGATTCTAAATTTTTGTAAATTTCCC  
ATGAGAGAATAAATTTTTTCAAAAAATTTCCAGTAGGTGAATGGCTTAATACATGGTA  
TCTGTGAAGATGGCAAATAAATGAC

Sequence 1007

NTNTTNGNNNAATNCNCNNTTAGCGNGGTCGAGGGGCGNGGNNCATNTAAANGTGATGC  
TAATACTTTAAATGTGTTAAGATATATGATTTAAAAAGCATTGTNAATTGTATACTGCA  
GTGTCGTCTACATGGCATTGGACAGGACANTAATTGTAACATAAANAGTGCNAATTG  
TTACACTTACATATGAATAGCTGAAATGNGCAACAGTGGACGCAANTTTTTNGTTCTTC  
AAGTTTTANTAATTACCCCAANAANACCTATTTAACNAGGCTGATNCTAACNTGGGGGAT  
ATTTAATGGNTTCTTATTAATTTGGACCNAAAAANTCTTTTGAATTAANCTTGGGCN  
ANTTCGCAACCAAAACCAATTTTAAT

Sequence 1008

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGCTCACCTCTCAGGGCTTTGCTCCTTGGG  
AGGCTATTCAAGCTCAGCATCACCTGTCTCACATCTGTCTGGGATCCTCAAACCTGACCT  
TTGTAAATTTCCACTAACTGAAGATTGTAGAGGAAAAAACAACATCTTATCGAATTCC  
TGCTCTTATAGCTGATTTTAGCTATTAGGAAAACATCCCAAGTTGAGCTTTTCTATTCCCT  
AGAATTTAGATTCTTTCTTTTAAAAATTTATCTCCTTTTATAGTAGTAAAAATAT  
TTTCTTTTGTGGAATGGGAGGTCTAAGCTCAGTGTCAAAAATAAATCATTTT

Sequence 1009

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTCTTGCTACAGCGTTTAGCTCCGTTTGT  
TTGCATAAAGATCTGTTTTCTGACTTCGCATGAGGGGTAGATGTTCACTTATTCTCACT  
ATGTAAATTAAGTAAATAATAGGAAGAGATGTTGAAATACAACTTTCTGCCACCAG  
ACCTTCACTCTATTGCAGTCATTTTCTCCCACTCTCCCCCTCTCTCCCACTTCTCTGA  
GGATTACCTTCCCCTCTCTCANCAATCCTCTGTCAAGTGGCTTTTTTTTCTTTGGCATG  
CAAACATGCTCAAGTCTGTCTTATA

Sequence 1010

CCCTTAGCGTGGTCGCTNTTCGAGGTACTCTTTTCAAGTGAAGTGTTCCGGTCACCTGGA  
ACCTGTGAGTATGTGGTTTTGATCTGTGACTAACTGTCCCCATTTCCAGTTTCTCTG

Table 1

CTCCGTCAAATATCAACATTTTACCAGGTTTCTCTGTTGTTGCCAAACCTGTCATTTTFA  
TTTGGTGTGGCTTCTTGGGAACTTCCATGGCCATTTGATGGGAATCAAACAGTGAAAA  
CAAGGACAGATGCACCAGAGGTGGCATCAGGAACAAATGGGTCATAAGAACTTACCTTGG  
CAGCAGCCCCAGAATGGTNAGGAGGAAAGGCACTNTAAGGTATCAGAAGGTAGAAAGGAN  
AGGTTGGATNATAGNAATGGGGGAAAGGG

Sequence 1011

CCCTTNTNNTGGTCGCGGCCGAGGTACTGAGACACTGGATCCTAAGAAAATCAGAGTTAT  
AGCTAGTGGCAGTTATCAAGGGAATGCAGAGGTTTCTGTATTCTGAGCATGTTCTGTAA  
TAGGATAGATAGGCGATGTGGCAGCAACAACTCCCAATTCGTAATGTCTTAAACAAAA  
CAAGTTTTATTTCCCATTTATGCCATGTTTCCAGCACAGTTTCTCAGAGGGCTGTGCTCC  
ATGCATTTACTCAAGGTCTGGGAATGATCATGGCTACACTATCTTGAGCCACCATATTT  
GGAACCTGTTGCCACTCTGATGGCAGCAGAGAACAAAAAGAA

Sequence 1012

CCCTTTCGAGCGGCCNTTTNNGGCAGGTACGGGCTTTTTTGTCTTGTGACAGTAACAGTG  
AGGGCATGATTAGCCATCTTTGCCAGCTGAT<sup>3</sup>CTTGTGTTGGACACCTGCCTTGTACCAC  
TCTAACAGGCCGTGTGACGAGCTCCGCTTCTCCTGACAAGCTGCGAGCACAGGGGACA  
GCACAATCTGAACTCTTACNGATACCAACAGCAACAAAAATGAAAGCAGTTATGGTGGG  
CAAGCATTAATCTAAAATTTTTTTTAA

Sequence 1013

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGTCTCACCATGTTGGCCAGGCC  
G

GTCTCAAATTCCTGACCTCAAGTGATCCTCCCCGTCAGCCTCCCAAAGTGCCAGGATTA  
TAAGCAGGAGCCACCGCGCCCGAGCCTATTTTGTCTTAAATTTTTTGTCTTTCAGTCA  
CCACAATTTACCATGCATAAATCACAACGGTTAACAATTTAGCATCTTTGCCCTCTTTT  
CCTGTGCACTTACGTTTTTATGTAGCCAAGATCACACGTTGCATTTTGCTGCTTTCCTTA  
ACAGCGTCTAAGTCATCAGCACTCTATTGTGATGATTTATCTTAAAAATATTCCAAGCGA  
TCATTTTTAGTAACTGTGTAATATTATATCATAAAGTTAAACATAATTTGTCAATCAAT  
TGTTGAAATTTTTAGGTTACGTATATTTCTCTTATAAATATGTAAATATGTTTATAAAA  
AGTTATATACAGTTTTTTATAAATCTTTGTGCATACTTTATACTGGTTCCTTAGCATAGA  
GACTGTGGGAATAGGATTTCTTGAAAAANGTAAAAAGTGTGAGTATGCATATATACCTG  
GTACATATATGTTATTATTATAAANGTAATATTCTTTTTTTTTTGGAGAAAGAANTCTC  
ACTGNACTTCANNCTGGGGTAAAAGTGAGACCCCTGTCTNAAACCAACCGGAAAAAAA

Sequence 1014

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTATTCAGACAAGAGTTCTGACTCTCATGCTT  
GAGGATAAGATTATACATTTTCAGTATTACATTGAAGATATTTTCATTTTTAACCAAGACTAA  
CTTAGTATATTTGTTATTTTAAATGTGACCAAGAAATATTTTCATAGAAGCTAATGCTGA  
GTCTTTTGATAATTTGCCGTATCTTAGTCAATCCCAAAAAATTTATTTTCTACTATTTAC  
ATATTATCCTAGTGGATATTACATTACTTACTGAAGCCTTTGGTTCTATGTTTCATCTAC  
TCAGACTTAATTCAGGAAGAGCTTCATCCAGATGTTTTGTTTATTTGTTTCTCGATTACA  
TGTATGAGATTTTCAAGTTTATGAGATCATAGGTCAAGTGAAAGGTCACAGTTGAGAGGT  
CAAGTAAGAAGCTAAAATTTGTGAAACCAAGAAATGACAGGACAGTGCCAAATGAAAGG  
TCAAAGTCAAGTGACAGACTCAGTACCTCGGCCCGCGACCACGCTAAGGG

Sequence 1015

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGAGAACCAGTGACAACCTGTCAAATTA  
TTGTAGTTAGCCAGTGAATTTTCATTTTTGAATTTTTTCTTCTTTGAGACAGGGTCTTG  
CTGTTGCTCAGGATGGTCTCGAACTCCTGAGCTCAAGCAATTTGCCGGAGCTCAAGTCTC  
AGCCTCCCAAAGTGCTGGGATTACATGAGCCATCGCACTCTGCTGTTTCTGAATTTTTTA  
AACAAATAAATATCAAGCAATCAGATGCCAAAAATTACAAAAGAAAATCAGTATCAAAAA  
TTTGGAGTTTGAGGCCAGGCACGGTGGCTCAGGCCTATAATCCAGCACTTTGAGAAGCT  
GAGCGGGCAGATCACGAGGTGAGAAATCGAGACCATCTGGCTAGCACGGTGAAACCC  
CGTCTCTACTAAAAGTACCTCGGCCCGCGACCACGCTAAAGGG

Sequence 1016

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTATAAAGTTAACATATTTCCCCTATATG  
CGGAAAATGCTGACTATATCTTTTGGTTGCTTTGGAACACTATCTCCTCACAACAGTCCT  
TGCTACAGAAATGGGAAAGGAAGGACACATTTTGGTTTCTGCAACATGGCAACATTGG  
TAAACCAGAAATGATGTGTGACAAGAACTAAAGAACTGGACGAAATTCACCTCCATTC

Table 1

ACCCTGGTTAAAGCTTCCTTGAATCAGAGATAAGAAACAACATGAAAAATCTATTCCTTT  
TAGAAAAACAAGTCTTTAACCCAGAGGTTGGTTTATTTTGAAGGAATTAGACTCTGGGC  
CCACATACCGCTCGTTCAAATATAATGCTGTGGTTTCAACTCCTGCTAAATGTTGCTGT  
GACTTTTAAGCAGAGAACTTCTAAAAGGAAGTAACCTAGGGAGGGGCTGATATAACTCAG  
ACATCAATAATTCATTTTATTGGAAATAGGAGTAGTAGTATGAAATGCTAGCANACTGTT  
TCATTTGCAGGGAGGCATTTTCTA

Sequence 1017

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATTCACTATCATTCTGGTTGCGGTGGAAGAT  
GGAGACTGGCTATAAGGTAGAAATATGGTTTGGGGTCTTGGATATAGTCATGGGTTGCTT  
TGAAGGACTGGTGACAAAGTTTGGACTTTACCTTGACAGACAGTGGGGAGCCATTGAAGAT  
TTTTTTGAGCAGGAGTGCAGGAATCAAAGCAAATTAATTTAAAAAAATTTAAATTAAGG  
CTAGCAGGATTCAGTTTTCAAAGTGGCCAGCTGTGGACTAAATCCAGCCTACAGATACAT  
CTTGTGTGACCAGCAGAGAGGCTTCAAAGTCTTCAATACATTGCCAACACTTAAAAATGA  
GAAGATTAAATATAAAATTTCAAGTTTCCATCATCTTTTAAATATTAGGAGTTCCAGCA  
ATGCCGGGCTTTTCCCCCGCATGATCACTGAGCTGGATCTCATGTTTAAAGCAAGCTGT  
GCTCCCCGCTGCAGCTCTCTCGGTTCTCTTTTCTTTTACCTACTGACCCCCATATNCATT  
TTAAAGATTTTAAATTTTATGGATACATAATACTTGNCCCTGCC

Sequence 1018

CCCTTGAGCGGCCCGCCCGGGCAGGTACGCGGGTCCCTTATTTTCTGGTGTCTTACTTGGGA  
TGCATCAGTGAACAAACAAAGGTATCTGTCTTATGAAATTTATATCATAGCAGAGGAA  
GACTGGAAATGAATAAATAAATAAAGAAATGGAGTTTGTGGAAGGTAATAAGTTCTGTGG  
AAACAAGGAAAACCAAGGCATGGAGGTTTGGAGTGCTAAAGTGAAGGTGTGAGAACAGAT  
TGCTCTTGCTCAGTTTCTGTCTTCTTTGTTTAGGAAATGTCAATCTCTGTATGCTTC  
ATTATAATATACATAAATATGAATTGTTATAATTTAAGATAAATTATATAAATATAA  
ATTATAA

Sequence 1019

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTAGTTACTCCTTGCCCATAGACGTGTTTGA  
CCTAGAAAAATTTCTTATACGCAACAGATATTCATAGAAATATATATTAAAAATAAGCTT  
GAAGGGTGAATTAATAAATATTTACTTGGAAGCTACAGTGGGTGAATTAACAAATATT  
TACTTGGAAGCTACTTTATAGCCACTGGGCTGGATTTCATATACAGAGTTCTTGCCCTTG  
GGAGTTNTACAACCTGCTTAACACTTTGTCTATGCTAGAATACA

Sequence 1020

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTAATGCTTTCAGCCCAGGAGCAGAAAGAGAAG  
TGGGCTCTTTGCTTTGAGAGTCTCTGAAAATTTTCAATACCCTGGGACAAATTAATGAG  
GTAGATCCTTCTTTGAATTTGTTAATAAAGCATGCTTGTGTTTGTCTCCATAAAACAGGCT  
TTGACCATTAAAGTTTATATTTTAAATGGGTAAATTTTATTGTAATACACTAATTTTAAAG  
AAAAGAATTAACCTATGGCTTAAAGCAAAAACAGACCTTGGATTTACCCATAACTTT  
AAGGCTGGTCATTTTAACCCCTGATTTGACACACTCTTATTATGGTGTCTTTTCTCCTTAT  
TTGGCTAAATATTTCTGACCATCATAGCAATCTTTTCTATAAAGGAAGCAGGCAAGAGAG  
CTAGAGTGAAAATGTTAAAAACAAAACAAAAAAGACAGCATACTGGCTACCAGTTTTTCT  
TAATTAAGATGATCTGTTTTCGCAATTGCGTAAATTAGAATAAAATGTTATTTAACTCAA  
GGATATTTCTTCACTGAAAGAAAAC

Sequence 1021

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTACAGTCTTAAGATATCCATACACCCCCAC  
ATCCGTCTTTGTGCTAGAAGATTACTGAANATTTAATTCCATTTATGTCATTGGATTTG  
TAAAAACCCCTTCTGGATTCAAAGATGAAGGCCTCACTTACTTTATTTTGTCAATTTT  
ACAGACCCCTTATGTAATGCCTCAAGAGTAAAGAATCTTGCTCAAGTGATTTTGTATC  
TCCAATGGCTAACAAGGAGCCTGACATAGAAGTAGCTGCTTGGTAAATATGTGTTCAATC  
ATTCAACAAATACCCCCAAGGGACCTCGGGCCGGGGACCACCGCTAAGGGCGAAATTCC  
AGCACACTGGGCGGGCCGGTTACTAAGTGGATCTCGAGCTCGGTACCAAGCTTGGCCGTA  
ATCATGGTCATAG

Sequence 1022

CCCTTAGCGTGGTTCGCGGCCCGAGGTACCGTGTGGGCCACTAATACATAAGCATCTGTGT  
TGGCTGGGGGTAGGTGTAGGGGGTGCTTGGGGAGAGATTTAAACAAACCCCTTCTCTAC  
TTGCAACATCTCTTAAAGCTTGTCAATCATGTTACTTCTTCTTTAGAGTTTCATTTG  
TTAAGACGGAAACGTGCTTCATCTTGTTCGCTTTTCTGCATTCCTTGTAACCTTAATA

Table 1

TTCTAATTANCCCCAACACGGAAAAAGAAATGTAACACAACCTGTCTTAGTTGTGCCATAGAG  
TTAGAATCTATCTATTAACATGTTTTAGGTNATAACAAGAAAAATAATAAAAAACAAACCT  
ATTATGAGAAGCTGCCCATGCCAATAAATTTTGAAACATTACCAGGAAATATAAAAGGAA  
NG

## Sequence 1023

CCCTTCGAGCGGCCGCCGGCAGGTACATATATTTCAAACAACATTTTCTAAATTAATT  
AATGTTTTCACTCATAATTATGTGTTCTTCCCACTTCTATATTCTATTTGGGGAAATA  
ATCCCATCAACCACCAACGGCCCAACAGGAACCTGAAACTAACCATATTTCCCTCCC  
ATTGCACATAAATTAACCTTCTAATCCTACCTACTTATCTTTGAATCCACTCTTCTATTTG  
CAGTGGAATACTTAGGGCTTNCCTTACTTTTTACCAGGACTATTACTAGAGCTNCCTAA  
ATGCTTTCTATCTGTAGGCTTACTCTTCTGCATTTCTAT

## Sequence 1024

CCCTTAGCGTGGTCGCGGCCGAGGTACCCACAATGGAAAGATGATCTTCCTGCATTGTGA  
AGGTTGTTCTCATCAACCAAGCCTGCAATGACTAGACATTCTAAAGAGAAGAGTGATGGC  
AATGGAAAGAGGACACATCCGCTTGCCAGGTCACCTTCTATCAGTTGATGACATGCCATAT  
TGTTATGGCTAGGTCAGCTTCCACAAGTATGCACATGCAAAATAGAACTTGGGAAAAAA  
ATCTTTGATTTGGCCCTTACCAAGTGGATCAGGTGTGTGAGAGTTCAAGTTGAGCAAAAG  
GTCAGAGTTTAA

## Sequence 1025

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTCTTCTCCCTTCGGACCACTCTCCCCACTA  
GACAGCTGTATGGCCGGCTCCCTCACTCTCCTCAGGTCTATCAGAGGGTGGCCACTGACC  
TCATTGTCTCAAACATTATATAGAACACACACGCACCCATGCACGCACACCGTCGTTCTT  
CATCCGCCTGGTTCGCTGCACTATTCCAGGACCTACAGCAGTGCCTAGAACACAGAACAT  
CCATTAGCAACATTTGTTAATGAATTTATAGTGCCTAAACCTGCACAACCTGACTTTG  
CCTTGCTATTAGAAAATGCAAGGCCAGGCGCGGTGGCTCACACCTGTAATCCCAGCACTT  
TGAGAGGCCGAGGTGGCGGATCACTTGAGGTGAGGAGTTCAAGACAAGCCTGGCCAACA  
TGGCGAAACCTNTTCTTTACTAAAAAT

## Sequence 1026

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGGCTAATGGTCTTAGTTGGGATAAGGAGAG  
TGGGGAAGGGGCAGGGGGAGATGATGAAATTCATTTATCCTCTGTGATGCTATGGAAGAA  
CAATTAAGATCATGTTTCTACTTTGATTTAGTTGCTAGTCAATTTCTAATCTAAGCACC  
CCCTATAATTTACCTATGTCATCATGCAAAATCACCATCGGTAATAATGTGGGGGCGGGG  
GAAGTCTATACAAGAATATTAAGGCCCTGTGCGTGAGCATGTCTATAGTTAAAGACTTAA  
TGAGAAAGCATCAAATTGTGGTGCAACAGCTGAAAGTAGAAGTAAATCACAACGTAATA  
AGATGCAACTTTGGAGGAGCTCAAAGCAACANATACGTTTTTTATCCAAAAAGGAGTAA  
AGAAAAATCGCNACGGCAGTTCCTTCAGATAATCAACNGATGATTTTATTTGANAACCA  
TAATTAAGTAGCGTTGTTTGTAATAAATTTTTTCAATTTATACNTTTAATGNTTATTA  
A

## Sequence 1027

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATTCCTTTCTCTTTCCTAGACCGATTCTAG  
TTTGTGTCCTTCCCTTTCCTCGGAAACCCCAAGTTTGTGGATGCTGCAGACACTCTGTGC  
CCCCCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAAGACAGAGACGATGTGGCC  
TTTGTCCTTAAGAATGAGGTTTGAAAGCCCCAGTTCTTCCATGTTAGGTGATTTCTTGCA  
GCTCTTGGTATCTGCAGAATTAGTGTGAATGCTTAAAAAATATTAACAGCTT

## Sequence 1028

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG  
TCCTTTGTGTGAAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAATCTCTGT  
GCAACAACCTTACTCGGTGTGGCAGGGGTNTCCNGGTGTCTGGCTCTGATCTTGGTCGCTG  
GATAGNCGNCTGTNTNTCTTTAGGTGCCCAAGGCGACGGC

## Sequence 1029

CCCTTTTCGAGCGGCCGCCGGCAGGTACTTAAACATTTAGACTCCTTTGTGCCTTNTGG  
AATGGGAATTGCTTAAGCTGTCCTGAAAAATNGCCTTAAACATCTGTTNGATTGAGATT  
TGTGATACATAGAAGTTGGGAGGAAGATGTGCGGAAAGCCCTAAGAGAGCTACTTGCCAAC  
CCACCATNAGGTCTNCCTCAGTGTTCTAGTCAGGACAGACGAGGCCGAGTCTGAAATT  
ACGATAAGNCTTTGAATGCAGCATAAACAGACC

## Sequence 1030

Table 1

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTGACCTGTATGTAACTCTAGTTACTTTGG  
TCTTCTCAGGCTCTTGACTCTTTCACAATTAAGTAGTCTTTGAGGCTCAGCNCTGCTTT  
CCTCATAGCTATGCTATTGGCCTGGACACTCAAGGGAGTATAAGCTNGAGGCAAACATGG  
ACTCATTTGTNTTCTAACTTTCAGGGGATTATTTGNCCATCATTGCCTGATGTCCAGTG  
TCT

Sequence 1031

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTGTTTTGTTCAAAATCACAATTTAAATACT  
TCGTGATTTTAGAAATAATTGGAGCCACCGTTTTACCATTAAAGGTGAGTGATTGTTTCAG  
ATACATTTGGCACTGTCCATAGGTTTATGGCTTCCAACCTGTTTAAGACCATTCCAGAG  
TGAGAGCTGATTTGCCATGGTTATGAAGCTTTCAGGATATAAACTATAAGAATGACAAAC  
TACAGCAGTTGAAAATGTGTCTTCAGATACTCACTTGCAACTCCATTTATGTCTCTAGG  
GATTGAGAAATGAGGATCGAGGGACCAAATCTGGCTTGGTCAGTAAGAGTGTAGGTAACA  
TATAAATATTAAATGTTTCGTTGNAGTTAGTGTGGTACCTGCCCGGGCGGCC

Sequence 1032

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGTGTGATCGCAGCTCACTGCAGCCTCAAC  
CTCCCGGGCCCCAAGCAATCCTCCACCTCAGCCTCCCCAGTAGCTGTGTTCCAAAGAAAT  
TTATTTATAAAACAGGTGTTGGGCTGGACTTGACCCGTGGGCCACAGTTTGTCAACTGCC  
ATTCTGTAAGCTTAACATGTGTTAATTACTGCAATCTGAATAACAATGCTATGATATAGA  
CACTGTGTTCCCTTTTAATAGACAAAGGAACCCAGGCACAGAAGGATTGACTAATATGACC  
AAAGTCACACTGCCAGTGAGTAGCAAGCCTGAGCTCTGAACCATGACAGTTCACATCTTC  
CACGACAGCAGCTTCTCAATGCTCTTTGGAGGGACCAGAGCCCAGGCAGTAGCAACGGCT  
ATGAGGTGGTGAGACATGACCAGCAGATAAGCCCTGGGCAATGGTCCAGAGCTGGAGGGA  
GTGGAGAACTAGCCATTTGTGACTTTGTGAACAATCCCTGGGGGAGTCTGGAATTA

Sequence 1033

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGATTGGGTGTGTGATTAAGAGAAAGACAGG  
AGTCAAAGATAGTTCCAAACTTTTGAACAGAACTGGATGAATACTGTTTACTGAGAT  
GGGGAACACTTAGAGAAAAATGCATTTGGAAGCAGAAATACGATCAAGACTTCCATTTT  
TGATACATTAAGCTTGGTATGTTTAATTCATAGCTATATAGAGGTATTAATTTGGCAGGA  
CAAAATCATAGCTAGAGATAAAATTTAGAGTTCACCAAGTGTAAAGATGATATTTGATGG  
CACAGGATGGACTTTCTTCTGGGATTTGAGTATACATAG

Sequence 1034

TCGCCCCGCGTCCGNGNACGCGTGGGCAGGCATTANTTNNNGCCAGTTTATGAGTGTGA  
GCATACCACAGTACTGATTACTGTGAAGCTGAGNCCCATTATATGTTNATTGATGTTT  
AAGATTTTCTGTTCAACAAATTGTTCAATTTCTTTGCCCGTNTTTCTTTNTGAGTAATN  
CTTTGTATATTCNGGATGTTGATCATTATGGATTATAAAA

Sequence 1035

CCCTTTGAGCGGCCGCCCGGGCAGGTACCATTAACTGAGTGAAAGCTTTACAATTGAG  
GGGTTACTCATTAGCAGGACCTGGGTTTTGTTTTTAATCTCATTAAACCCCTTGTACCCA  
TTTGATAACAAAGACTTCAAGGAAGAATTTGCTCAAAAATCTCTGGGAGACAGTAATAGC  
TTCTTGGGCTGACTGATAAACTTTTGCCTCCAGCAATGGAAATGTGGGAAAATTCCAG  
ATGCTAAATGATCTGGCTTGGACCCAGCAGTTGAGGTAGTGGAGCCTTTGATTGAGGC  
ACAGCCCAGGACTGCTGCAAGGGAGAGGCACAACAGAT

Sequence 1036

AGTCGACCACGCGTCCGGTTTCGAGCGGTACCACGAGGACGCACATATGCTGGACACTCAG  
TACCGCATGCATGAGGGCATCTGTGCCTTCCCCTCTGTGGCGTTCTACAAGAGCAAGCTG  
AAGACGTGGCAGGGCCTGAGGAGGCCGCCAGTGTCTGGGCCACGCTGGCAAGGAGAG  
C

TGTCCTGTCATCTTTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGAC  
GAAGGGAATGAGAACTNCAAGGCCAACCTGGAGGAGGTGGCTGAGGTGGTCCGTATCACC  
AAGCAGCTGACCCTGGGGAGGACCGTATAGCCCCAGGACATCNCCTCCTCACGCCCTAC  
AACGCGCAGGCCTNTGAAGATCATCAAGGCCCTTCGGCGAGAGGGCATCGCCGGGTGGC  
CGTGTCTCCATCACCAAGAGCCAGGGGAGCGAGTGGCGCTATGTGCTGGTGAGCACCGT  
CCCCGACCTGTGCCAAGAGCGACCTGNACCANCNGGCCACCAAGAGCTGGCTCAAGAAGT  
TTCTGGGCTTCGTTGTGGACCCCAACCAAGTGAACGTTGGCTTCAACGCCGNCCTCAAG  
ANGGGCTCTGNCTGATCNGAGGACCACCTTCTTNTTGCCTTGTGGCCCTTTGGCCGT  
AANCNTNCTGGACNTTTTGCAGGNTTAAAAAACCTTTTCCCTGGCCGGCCAGGTGCC

Table 1

CCTTNTTCAGGAAGGCCAATNTGCCCTTTCTGAAAAGNCTTTTCACCTGCAAGNTGCCAGG  
ACTGGGANGGGAAAGTTNAGGGCCCCC  
Sequence 1037  
CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCATTTAACTGAGTGAAAGCTTTACAATTGAG  
GGGTACTCATTANCAGGACCTGGGTTTTGTTTTAATCTCATTAAACCCCTTGTTACCCA  
TTTGATAACAAAGACTTCAAGGAAGAATTTGCTCAAAAATCTCTGGGAGACAGTAATAGC  
TTCTTGGGCCTGACTGATAAACTTTTTGCCTCCAGCAATGGAAATGTGGGAAAATCCAG  
ATGCTAAATGATCTGGCTTGGACCCAGCAGGTTGAGGTAGTGG  
Sequence 1038  
CCCTTTTCGAGCGGCCGNNCGGGCAGGTACTTTGACTATTTTTTAGCAACAAATTACTTTT  
GACACACAGCACAAATTGATTTAACTTTCCAATTTTGAACCTATTGGATAAATAATGATG  
GGATTTAAATAAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGAGTCCTCTT  
AGTAAAACTATTGTGACACTTCCTTCTTCTCCAAATATTCGGCCTGGAAAGACCTAAA  
TACAATGCAGGGATTGAATCAAATTCACACATTTTTTTCTACGGAAACAACAACCTTT  
CTTGCTTATATTTAACAACAACTAGTATAGATTCCCTTTATATTAATAGTTATATGGTAT  
TTTTTCTCAGAGTAGAAATCAGGTTTATAGGCTAAAGAATATAGGCTAATTT  
Sequence 1039  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGATCAGATGGATTGAAACATGACAGCCCCA  
TTTCATCTGGCCGGTTAAGGTCCTCATGGAATGAAAAACACTTTCCGGGCACTCTCCTATG  
AGAGAGAGAATGGGTTTCTTAATTGCCAGATTGTCTGAACACAGCCTCAGCTACTTCTA  
GGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATTCTTGGGAAAAAAATTAG  
CATTCAGTGCCAGCTCTCTAAAGTGTGGATTCTGGATTCTGGTAGAAGCCAGTAAAGAAA  
CGTTTTCTCTGGAGTGGAAGCTAGTAAGATTTATTCTGTGGTGATGAAGCCATCTGAAAC  
CTTACAAGCAGTGTTGGTTGTATCAGCATATGGGAGCTGACTGCCTCAGGACTTTGGAAGC  
CTGCTTCTCTGTGCCTCANCCGGAACCTCAGGTTACTCAGTAGTCATTTGCTAATTTCTGA  
GAACGCANCACTCCTGAAGGGGATAGAAAGCATGAACAATACCC  
Sequence 1040  
CCCTTTTCGAGCGGCCGCCCGGGCAGGACTCTTATCAACTGTTTTATAGATGAGAAAACAT  
TAGCCACAGCTTAGCTTATTTGAAGTCACAATAATATTAAGTAAGAGCAAAAGCCA  
AGATTCAAATGTAGATTATTTTACTACAGACTGAGAAACGAATTAAGTAGGAGCCTAAG  
ATACTTTCTGGAATTGAAATGATACATTATATACCTATAAAGATAATTGGCTATAGCT  
TCCTAAACTACAAATTGTCATAAAATGACTTCTGTCTATATCAATTAGAACTGGTAT  
TAAATTGAGTATTATAAGACAATAGAATGT  
Sequence 1041  
CCCTTCGAGCGGCCGCCCGGGCAGGTACTGCAGGGCCCAAGGCATACAAAGCTAGTTAT  
TTGGATCCAAAGTTGGTCAAGTGTGCAGTGTTTAGACATCATGATCTAGGCAACAGAAAT  
TCCTGGCCTGAAATATGTCACTAGTTAGAAACATTAGAAGCTTTCAGGTAATAAATATA  
AAAAACCAGTCAACCGTATTCTTATTTCTTCGTCAGAGAATCATGTGTCGTTTGGTTTAA  
CTTCTGCTGGATTCTGGATGGGAGTTGTTGAACATATTAATCTCATTATTTTCTGTAGA  
GGACAGGTTGTCCCCCTTCTCATTAGCG  
Sequence 1042  
CCCTTAGCGTGGTCGCGGCCGAGGTACCCGTTTGTCCATGGCTATTCCAAATACCCCCAT  
AGAAGGTAAAGGCAAGGGCTCACTGGATATTTTTAAATTGTAGGGATGTCTTTGCTCTG  
GGTCAATTTTAGGATCAAATATAAAGCACCTATAGCTCAGAGTATCTTCTAACATAAAA  
CTTCTGAGATACCAGAAATTTCCAAAACATGGTATAAACAGTATGAAACACTGGGTAGA  
TAAAGCTTTTCTCTAAATCTTAAAGTGCTCAAATATCATGACCTGATTTTTTAGTTTTAG  
AAATCAGATATTTTCTATTCCATATCTTAACTTT  
Sequence 1043  
CCCTTAGCGTGGTCGCGGCCGAGGTACCCGTTTGTCCATGGCTATTCCAAATACCCCCAT  
GTTTATTTAAATGTATATATAATCAGTTACATAAAAAGAGGTATGCTTAAATCTCATG  
ACTCTATGGTTGGACCTCTGTGGTTGGAGCAGGCAATAGAAATGTCTGTAATTCATTTAA  
AAAAAAAGTGACTTTCTACCTTTAGATAGTGAGGACAATCTGTAACTCTTTGTGTTG  
ATAAAAGCAAACATTTCAAGGCACGGTGAAAGAAATCTCTACCATGTATAAGGTTATATA  
TATACCAGAAGCAGTGGAGTTAGGACCAAATTAAGATTGA  
Sequence 1044  
CCCTTAGCGTGGTCGCGGCCGAGGTACATAATGTAATTGTTACATATAATTGTTGTATAC

Table 1

CATAACTTACTATTTTTCTTTTTATTTTTATATATAATTTTTTTTTGGTTTGTTTGT  
TGTTTTTAATAAACTGTTATCACTTAAAAAAAAAAAAAAAAAAAAAAAAANGTCCC  
TGCCCGGGCGGCCGCTCNAAGGG  
Sequence 1045  
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTCTGGGTGTGAATCTTGAGGTTGCC  
TGTCAGACTGGTGAGATCCAGTTTAGCTGTGCTAGCTAAAGCAAGGAGAACAGAGAG  
CCATAGATACTTTTGCTTAGTAAATCTTTCTTTGAGGGTAGGGACTGGAGTATGGAACC  
TTTTAGAGGAATGAGAGGGGCTTGTGACGAAAGGGTAGAGGAGGGAATACCTCCCTGCA  
AAATCTTACACAATACTAATGTCATAAGGCCGAGGATGAGAAAGTAGCACTTAACGT  
TTCATCCTCATCACATAAAGCATTCC  
Sequence 1046  
CCCTTCGAGCGGCCGCCCGGGCAGGTACAGCACTTTCAAAGTAGTGGAATATAAATCTT  
TCCATTTAACAGCAACATTCAAATATTTCCCATTTCTGCTTATTATTCCTCTCTGAAGGTG  
ATACATAGAAATATAGGAGCAAAACACAGCAATGCAGGCGCTCTATGATCTGGTTTGCTCA  
CATAGATCTTAAAGGAGAAAGATGAGGGATTTGCCTACAACCCACAGCCAATCTATGTG  
GACACAAAGGGTGACTTCTTCTTCTATTACGTTCTTGAGGTAGAAATGGTAAACTAGC  
ATGACCTCGAATCATAATTTAATATCATTCTA  
Sequence 1047  
CCCTTCGAGCGGCCGCCCGGGCAGGTACATTATTGGTAGTATCTCAGAATCCTGCTTAG  
CTTTTGAGATAAACCAAGTCATGATATTTGGGTAATATGGCCATAGGTATCATGCAAGA  
TTGAACTGCCAGTATTTGCCTTTTCAATTTTACTTTGTAAGAACCTGACACTGTAGG  
TCCTCACCACACCAAAACCTGCAACATAAACTTCAATTTGGGCAACTCATAGACCAAAA  
AAGCTAAACAAAAACAAAAAGGAAAAAACCCCTCTATATACAATCACCCCTGCTTGTCTACAT  
TTAATTTGCTTCATTCAAATAAGCA  
Sequence 1048  
CCCTTCGAGCGGCCGCCCGGGCAGGTACAACACTTTAAAAAGTGAATTNTAAGCTATGT  
GAATATCTCAATAAAAAACATTTTTTAAATAAAAACAATTCCAAAGGCCCTGGAAATTCAG  
GAACATAATTCAAAATAATTTATGGATCAAAAAATAAATCATATAAAGATCTGAGAACTA  
CAATGTAAAAATATAGAAAAAGTCATAACAATATTAGANAAAAATTTGAGCTGGATAAC  
AAAAATAGTACCTCNGCCNCGACCACNCTAAGGGCGAATTCCAGCACACTGGCNGN  
Sequence 1049  
CCCTTCGAGCGGCCGCCCGGGCAGGTACCTATAAACAAAGGCATCATAAATAGATATAA  
AGCCAGAAGAAAAGGGATCTAAAGTAGACAGAGAAGATAGGCTGACTCTCCAGTTGCAGA  
TTTTATTATCAGCTCATCACACCACCGAACTCTCTGGTGATTGCTATCCACATCCAT  
GGCGTTTGGTGGCCCTAAAGATTGTAACGGCCCCCATCCTCTTGTTAAATGGCAGGTG  
TGTTGACAAGAACTGTCTTAGGTACCTCG  
Sequence 1050  
CCCTTCGAGCGGCCGCCCGGGCAGGTACCTCTCATCTCCAAATCAACTAGACTCTTATG  
TTAAGAATACTAACAAGAAAAAATCCAAACCCCAATAGAAAAATCCCAACAACAACAT  
ATACCCTTAAACACAAGAATTGTATTATTCATGAAAGCAATACAAGTAAACACAACAGT  
TACCTTGGCTATTTTTTCAATGTACCTCGGCCGCGACCACGCTAAGGG  
Sequence 1051  
CCCTTCGAGCGGCCGCCCGGGCAGGTACCCATCTCTTCCATTCTGGGAATCTGGGAAAC  
TAAGCCTGTAACCTGTAGCTTGTAGAATGAATGATGGAGTAGAATAAATAAGAAAGGAAT  
ATATCATTAAATGCACAGGTAAATAAATAAATCTATTAATAAAGAGCCTAAAGAAAG  
AAAGATGACATTTAGCACATATTGGGTGAAATAAGTTGTTAGTCCAGCACTTCTCAAT  
TTTTAGTGGATATGTGAATTGCCTATTAATAATGCAAATTTAAATTAGTTAATCTGGGT  
GGACCTGAGTCTGCGTTTCCAACAAGCTCCAGGTGATGT  
Sequence 1052  
CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATAGCTATATACTCATATTTTTATT  
TTTATGTAAATTTCCAAATGCTTAATATGGCAGTATAATAATTATACTAGATTTACT  
TCAAAACATAGACATAAAGAAGATTACATGCTGTAGAAGTTCATTGAATTAGGAATCAC  
ATGCTATTTATTTAGCAGATATCTTCTTAATTAATGTTTGACCCATGTGAAGTCATT  
AACAGATCTGTTACGCATTATTCACATATGCAAAATAATCTATATGATCTGAATACCATT  
TCCATCTTTAAATTACATATTCC  
Sequence 1053

Table 1

CCCTTTGAGCGGCCGCCGGGCGAGGTACAATCAAAAAAGACAAAAAGAAATGGTGT  
AAAAGCCACAGTAAACATAAACCTCATATCAAGTATAAAACCACACACTTTGCTCTTC  
ATCCGGACAATGCCCAAAATTATACTGAGGTATTGGGGTGGGCTGATACCTCAAACAGG  
GAGAGAGGGACCATGTTACAGGAGGTGATTCTCGATTTAGGTGGTGACTGAATTTTTT  
TTTTAAGACAGGGTCTCACTCTGTCAACCAGGCTGGAATGCAGTGACGTGATCTCGGCTC  
ACTGCAGCATCAACCTCCTGG

Sequence 1054

CCCTTCGAGCGGCCGCCGGGCGAGGTACAATGAAAATTACAAAATACTGTTGAGAGAAAT  
TAAAGAAGACAAATAAATGAAAAGAGACGGAACATGTTTTCGCTTGAAAACCTCAGTAGG  
ATTAAGATCTCTTCTCTCCACGACTCTATAGCTTTAAAGCAATCAAAATCANACTGGTT  
TTGTCTGAACGTTTTGAATAAGTCAATGGCTTATTTCAAATTCATATGAAATTTCAA  
TGCCAAAGANTAGGCAAAATATTTCAAGAAAAGAAAGATTGAGGATTGCAATAACCT  
GACTTCAAACCTCACTAGAAGAACGAGGCCAGACTGCCAGGGG

Sequence 1055

CCCTTAGCGTGGTCGCGGCCGAGGTACCCACCACGTTTCATGTCTCCTCTAGCCAACTATA  
AAGTTATTAACACAAGAACCCTGTCTTATTCATCACAGTATCACCACAGGGGCTGAGAC  
AGTGCTTACACAGAAATGGCCCTTGATAAAATATGGGCTGAATGAATGAACATATGAAT  
TGACACTTTGAGAACTAAATTAAGTTATTTCTACTAGCATTTTTAACACAAGAACTAT  
TGAGATTACTTATATATTAGTAGTAAATGTTTGCTTTATTCATTTTGATTGCAAACTT  
ATAATGAACTCAGTGAACTTGNCACCTTTTT

Sequence 1056

CCCTTCGAGCGGCCGCCGGGCGAGGTACATTAACCTCACTGACTTACTCTGGGTTGCTAT  
TGATTAATAATTCTGTATAGACATTACGTAGCCTCAGAGTTGAATTTGGACTGCCCTTAA  
AATAAAAAATTTCTAAATCTTTAGTGTGGTGTCTATTAATTTTTATGATGATTTACAAGT  
TGGAAATGATTACTTTGCAAGTCATAGTTTACTTTGAAGTTAATAAGAGTGATTACAGTA  
AAGGAAAAATGCCATATATGGCATTGTTCTTAACAGCTTATGAAATTTGGAAAACGATAT  
TTAGAAAGCTTTCTCTTGNTGGCTGGAATGAAGTGGAGACCCTGCT

Sequence 1057

CCCTTCGAGCGGCCGCCGGGCGAGGTACAGCTTGTTGAGGATATTTCTTCTATTTTTCT  
TTGAGTTCTTGTTTCATATTCTAGTTAATTTCTAGTAGTCTTAATGTATTTTAACCAATA  
GACTTTTGTCTTCTCTGCTTATGTATTCCTCGTAAATGCTTTTTGTGACTTGTCTAAG  
TATAACAACCTTTACTATTAGCTGTAAATTTTCATTTTTAGTATGTCATCAATCTTTT  
TTGTGNTTTAGTATGATTAAATGGTTTTTCACTTGAAAGATATTGAATAGTCTACTTCA  
TTGATTTTTTTTTAAAGTCATTTTCATTTTTT

Sequence 1058

CCCTTCGAGCGGCCGCCGGGCGAGGTACTATACCAGAGTTAAATTGCCTGTGTTCTTTT  
CTGCCATTAACCTGGCTTTGGGTTGGGAAATTCAGATAATTCACCTTTTCCAACCTTAAAA  
TGAGATCTCATTCAAAACAAATTTGCCACAACCATTTGGAATATGTGTTTAAATTAGAC  
AGTAATGCTTTGGAAAGTGGAATTAACATTTTCAAGATAATAGCTGTTAGGCCGGGCTCA  
ATGGCTCACGCCCTGTAGGGAGGCTGAGGCAGGTGGATCACCTGAGGTCAGGAGTTCGAGA  
CCAGCCTGGCCAACATGTTAAACCCCTATCTCTATTAATAAATACAAAAATGAGGCATGGT  
TGGCAGGTGCCGTTGTCCCAGCTACTTAGGAGGCTGAGGCAGGAGAATTGCTTGAACCA  
GGGAGGTGGAGGTTGCANTAAAGCTGAGATTGCGCCAGTGCACTCTAATTGGGCAACAA  
GAGTGAGATTCTGTCTCAAAAAATAATAAATAAATAAATAATAGTTGGTAGATTGAAC  
ATAGAAAAACACGTTTTGTAGATAAAAAANTGGCCAAGTNTTAGCCACCTTTGACAATTTTT  
TAAAA

Sequence 1059

CCCTTAGCGTGGTCGCGGGGCCGAGGTACTTTAACAAATTAATAAATTTAATTTAA  
ATATTTTAGAAATTTTACTTAATACATTTATTTAATGAAGGCTGCTTTTAAAGAACTTTAA  
ATCCTCACGTAAACACCACCACCTGCAAGTATTAATATCAACTTTTTCAACAAAAATGCC  
TGCTATGTATAAGCTACTGAAAGAAGACAAAAATTAATAAATGTGTCCCTCTTAGA  
TATCTATAATCTAGGAAATGAACACATTCTTTTCAGACACTAACTCCATAAGAACAGG  
CATCAGATCTATCTTATTTACCACCACATCCTGAGAATGGAGCACAGTGCCTGACACATA  
ATAGATGCTCATAATAGATGCTCAGGGTTTATAGTCAGTGAATAAGTAAAGAAATGAGTG  
AGCAAAATATCTCTTAAAAAGAACAGACTTTTAAAGTTAACAAGCAAGTGATGTGTTATTC  
AGTAGCAAAATAAGATTGTTTCCTAATGTCATAATTCATTTTT



Table 1

## Sequence 1060

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGTTACCAAAACCCATCCAACATAAAATTTAA  
GCTTTTTGCATTTTAGTGGATGCAAATTGTGTCTTAGTAAGAAGAACATACAAAACTAA  
GAAAGATAATGTTGAAGAAAATAACAAAGCTTAAGGACTTAACTATTACCATCAAGACA  
TGTATAACTACAGTAATTTTAAAACTGTTTTCTTGACATAAGTATAGAGAAATGTACCTC  
GGCCGCGACCCACGCTAAGGG

## Sequence 1061

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTACGCTTTATGATCTTGAATATTTTCAGNGT  
NTAAGGAATCTCTTCTTCTTTGATCTCCACTGCATGAAGAACTCTGTTGCAGGTGTTAA  
CAAGGAAGTTTTGAAATACAAAGCCAGAACCTGCCCCCAAGATCTGACAGTAGTANAA  
GGAGATCCATTTTGAAGAAGGTATAATGGCAACC

## Sequence 1062

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTAACAATTAATAACAAATTTTAAATTTAA  
ATATTTTAGAAATTTTACTTAATACATTTATTTAATGAAGGCTGCTTTTAAGAATTTAA  
ATCCTCACGTAAACACCAACCTGCAAAGTATTAATATCAACTTTTCAACAAAATGCC  
TGCTATGTATAAGCTACTGAAAGAAGACAAAAATTAATAAATGTGTCCCTCCTCTTAGA  
TATCTATAATCTANGAAATGAACA

## Sequence 1063

CCCTTCNAGCGGCCGCCCGGGCAGGTACACAAATCTAGGNAATCTAAATTATTTAAAT  
GTCTAGAATTTTTTCTTTTATGAACCANATCACATTTCTGGACATGCTAACCATTTAA  
ACGGNGAAGCTTCAGCTTGGTTGTTATCTTCCATTAACTGTTTCAGAAACATTCAGGC  
GGCAGATAACTCATTGGATTGTTAAGAAACACCAAGTTTTCCAGATGCTACATTAACAC  
CTCATAGAAGTGGTCTTTCATATGTATGTTATGNATGATGTNAACCATAATATATATGNN  
TAAATTTTAGTAGGAGTTATCCTTTGCTTTTATAATTTCCAGTTTTNCGNNAACGTA  
ATTCCTTTTTTCGGATTCATTTTTAGGTAAAAATGGTCCCATTANTTTAAAGGATAA  
AAATAAAGTCTTACTTTTGAGTCTTTTAAGNCGTNNAATTTNGCCANTNNTGTTCCCGT  
GGAACNAGAAAGGTNNTAAANCCNTAAATTTTGGAAATTAACNCGCCTTTNAAAGNN  
ATGGAAAGATTCTTCGACCACCNNGNTTTTANTAAAAAACNTAAAANTNGAATCCNGAA  
NNAANGGGGGGGGNGTACCCGNGGNTTATTNAAACCTTTAGNANGNTTTNTTTTNT  
TCTGGCTTTAAAAATTANTGGNNTTTGCTNNTAAGGGCCAGGAAACNTAGGGTTTTGGA  
AAAANCNAAAANTGCTTNGGGGGCTTNTTCNAAACCCGGGCGNCCAAAAANAAAAA  
AAAAA

## Sequence 1064

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTACTACAAGCAGCAAAAGGAAGCTCTAGAA  
CAAGGAATTAACACAGTGTGTTGTTCCAATCGCAGAAGAGGCCATGAGCACCATATGTG  
TGTCAGGCTTATCATCTGAACCAAAGAAAGGCCAATCCTTCACTTTCTTATGACTCTTA  
TAGGCTGCAATATTTCACTTGGCCATAAACAACCTTAATATCTCACACCTAGTAGTATTCA  
GTGACACAGAAAGGGAAAGAGAAAGGATGAAGAAAAAGAGGAAAGAGAAATAATTTNCCCA  
AGATACAAATTTAATATTCTTTCCAAAGCATAAGAACAAATTAATAATATTTCTCTGNT  
GNAAGTGGAGGATGGA

## Sequence 1065

CCCTTAGCGTGGTCGCGGCCCGAGGTACATTGAAACAATATAGTAGTCTTCCCCTTTACAA  
AGCTGAATTAAGTAAAGTGTGTGTTGGGAATAATAGGGGAATGTGGATTGTAGCTGTT  
TAATAAAGATTTAGATACATATAAAATTGCTTAAGGCCAGGCGCTGTGGCTTACGCCTAT  
AATCCCAGCACTTTGGGAGGCTGANGTGGGTGGATCACCTGAGATCAGGAGTTCGAGACC  
ACCCTGTTCAACATGGTGAACCCCATCTGTACCTGCCCGCGGCCGCTCGAAAGG

## Sequence 1066

CCCTTAGCGTGGTCGCGGGCGNGGTACCCACATGATCCCAAAGAGGAGGGGCCCTGTAGA  
AACAAGAACCAACCAACANAAAGCAGTGNCTACAGGCACCATGACAACAAAAGGAGTTTT  
AAAGTGCATCTTCAAATAGCACACAATTTTCCAATTTAAATAGTTTGAATGAATCAAAN  
GGGAANAAAGCATTANTTAGATACAACTGAATTTCTCAAAAGTATATTANCACAGCCTAC  
AAATAATCCTTAAATGTA

## Sequence 1067

CCCTTAGCGGCCGCCCGGGCAGGTACCCCTCCGTGACTTTTCAGGGTCTCCTGGTTGAATG  
AATTTGCANAAGGATTAAATGTGTGTTCTTATTTGTGCTTTGTATTCTCCCATAAANTAG  
TGTGTTGGAGGCTATTAGAATAGCTGAGAGGGTAAACATAAACACATACGTANGAGCCT

Table 1

GACATAAACACATAGGTAGGAGCCTGCCATAAGCACCGTAGGTAAGAACTAAAAGGGTGT  
GTTTCCATTTGANGNGGTCCAGNCCTTCCTTNCATACTCTNAGATGACAAAAACACAAAG  
TTGCTGGAGCTCACACAATAATGACTAAANCCAGAAAGTTTGGACATGGAGAAACATTT  
TT

Sequence 1068

CCCTTAGCGTGGTCGCGGCCCGAGGTAATATTAGTGTAGCAATTTTCCAAAAGCCATT  
CATCTTAGAGGGCTAAATGATTTTACCTTATCAATTCCTCCTGTGAAAAATATCTCTAA  
AGAGGTTTTCTGCTGGAAAAATATTGTTGCTGTACATTGATATGCCAACAAAAGCTAAGC  
AGGGAAGTCAGGCCAAGAAATATCTNCCTGCAAGAGAAGGCATCGCACATGTATCTCTCC  
ATGCTATTTAAAATTTGCATTCTGCAACATAGAAGGGATAGGCCATGCTGCAGAAGCCAG  
GTCCAGGAAAACTGCTTTCTTTGGCCNTTACACATCCTTTTTGGAGAAGATGCTGGTGAA  
AGCAGCAACTACCATCTGCCTCCTGTTGACTTAAGTGCAACAGGTGGAAGGGGANGAAGGA  
AGGGCATCGCAACATCATTCTATTATCTCAACCTTGCTTTTCTCGG

Sequence 1069

CCCTTAGCGTGGTCGCGGCCCGAGGTACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAG  
AGAAGGTAAAGGCAAGGGCTCACTGGATATTITTAATTTAGGGATGTCTTTGCTCTG  
GGTCAATTTTAGGATCAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTAACATAAAA  
CTTCTGAGATACCAGAAATTTTCCAAAACATGGTATAAACAGTATGAAACACTGGGTAGA  
TAAAAGCTTCTCTAAATCTTAAAGTGCTCAAATATCATGACCTGATTTTTTAGTTTTAG  
AAATCAGATATTTTTCTATTCCATATCTTAAACTTTTCATGTTAAATTTAGTTCTGACAA  
TGTAGGGTTCTATTTTTTTCAGGTGATTGTTGGGAGCGTATAGAAGCATATATAAATATG  
GAATATGTGTTTCTTTTTTCCCTTCTGAAAGAAAGTCAAGCCTCTAATCAAATAGATTG  
ATGCTTCAGAACTTAACAGAATATTATCTGCAATTTGGCATAAATGCATTTTTCTTGGG  
GAAGTTTCCATGGTCAAATATTAGTCATTGCAAAACAGAAAAGTTTGACACCTGGAAA  
TGCAGACCTTTTGCTT

Sequence 1070

CCCTTTGAGCGGCCGCGCCGGGCGAGGTACATTATATTAATGAAATTTATCTAGTCCTTGCA  
AACTTGTCCTATTGATTTTCATTAGTGTAAACTAAAGAGAGAAACTTCACACTGACATT  
TATAATTGTAAGAACTAAGAACCAACCATCAGCTTTTCTATGCCAATCCATGCCCTTCAG  
GAAGTTCTTGAGGCCCTTGAGGTGCTAGTTAGTAAATTGCTTACTGGGACATTAAAGCA  
GCTACATTTTTTGAAAGANGGAGAATTAAGTTTTTGGTG

Sequence 1071

CCCTTAGCGTGGCCGCGGCCGAGGTACCAAACTGAAAAAGATTGTGTATCCAAACATT  
ATTTACATAAAATGTATTTTGATAAAGTAAATCCCAAACCATGGTGCTCAGAGGTTGT  
AACAGTCCATGTAAGTTGAAGAAAAAGAGTTATCAATCAATACGTGACTATCAATCATTT  
ATTTAATCATTATTTAGTTTTACATATCTAGAAATTTAGTAGAAGAACCAGCCCTTCA  
TAAANGTGGCCATTCCCTATACCTGCCATCGATTACATTATTTTACT

Sequence 1072

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTTT  
CACTCTTGTTGCCAGGCTGGAGTGCAATGGCGCAATCTCAGCTCACCACAACCTCTGCC  
TCCCGGGTTCAAGAGATTCTCCCGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCATGT  
GCCACCATGCCTGGTTAATTTTGTATTTTGTAGTAGAGACAGGGTTTCTCCATGTTGGTCC  
GGCTGGTCTCGAACTCCCGACTTCAGGTGATCCTCCTGCCTTGGCCTCCAAAAGTGTGAG  
GATTACAGGCGTGAGCCACCACGCCCTGCTTAAGTTTTAATAAGATCTCTTGGCAACTTT  
TTACGACTGGCAACTTAGGTCTCACAAACACAGAAAAGCTTGCTTTAAGTATATTGTCT  
TTGAAAAGTTAATACACTCTCTAAATGCTCCATTTAAATGATTTACTTTATAAATGCAT  
GCACTGAGAGAAAAGATATTTGAATGATATACACCACAATGTTAAATTAAGTNGATTGT  
TTCTAAGTATTGGCACTATGGNCAATTTTCTTTTCTTGGTTATGCTTTTCTGAGTTTCT  
AAAC

Sequence 1073

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATTGTATCAGAAAAATGCTAATTAATTTTTT  
GCACATAAAGGGCATTTTAACTTGGTTTTATTCTTTGTGATAAATATGGATGATGAATG  
GTAATGTTAAACAGAATTCAAAAGTTATCAGTTTGGCTAGCCAGACACAGTAGTATATGC  
CTATAGTCTTAGCTACCCAGGAGGCTGAGGCCAGAGGAGCCCGGAAGTTTACGTTTAGCC  
TGGGCAGCATAGTGAGACACTGTCTTTATAAAAACACAGCAAAAATGATCAGTTTGGG  
ATAGTAAGACAAATGGCTTTCTTTTGTAGGAATTTCTCTATTTAAAGGACTTTTAGGCC

Table 1

TAGAGTGGTGGCTTACGCTTGTAAATCCCAGCACTTTGGGAGGCCAATTGCAGGAGAATCA  
CTTGAGGCCAGGAGTTGGGGACCAACCTGGGCAAAGTANGGGAGACCCTGTCTTTNCAAA  
AAAAATTCAAAAAATTAGCCCAGTGAGGGGGGNGCTTGCCTGNGGGTCCTAGCCACCTGG  
GAAGGCTTGGGGGTGGGAANAATTACTTGGGCCCANGAATTTGANGGTGTAGTNGAGCCT  
TTGATNCCCCGTNAACCGAGTANAAGACCCTTNTTTTNTTNAAAAACCTTTAAANTTNAAC  
NTTTTTTA

## Sequence 1074

CCCTTAGCGTGGTTCGCGGCCGAGGTAAGTGGGTCACTCTGCCCCAGCTCTCCAAAGGCATC  
AAGATCCGACTGCTAGGAGCCCCGGCTTCTCCCTGACCTGCCCGTCTCCTACACCCTCT  
GGTCTGCTCCACACTGGTCTAATAACTGGTGTTCACATTCTCTAACGTGCACAACAC  
AGTCCTGCCCCCGTGCTTTTACCTCCTGTCCATTCTCTTATAACG

## Sequence 1075

GATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCGGGCAGGTAAGTCTTCAAAGAGGATA  
AACTTAAAGAAAATGACTAGATACACATCAAATTAAGCTGCTGAAAACCAAAACAAAGA  
AAAAATTTTTGAAAGCAGCTAGAAAAAATTACACACCACACAGAGGGGAATAAGGTTTA  
CATTACAAAGATTTTTACCAGAAATCAGAGAAGTGAAAAGACAGCTAAATGGCATCATT  
GAGGTGCTCAAGGAAGCAAGCATCTACTCGGAATTATATATCCACCTAAAATATCCTTTA  
GGAATGAAAGTAAATAAATACATTCTCAAAGAAAAACAAAGAGAATGTATCCCAGCAG  
ACTGATCTGCTAGAAAAGCTAAGGTCAACATTAGGCTGAAAGGAAATGTCATCTTCAG  
GAATGAAGAAAGAGCAATAGAAACAATAAATATATAGGAAAACACAAAATAC

## Sequence 1076

CCCTTTTCGAGCGGCCGCCGGGCAGGTAAGTCACTGATTTATGGCAAGTCAGCCAATCCA  
TCAGTGCTCAAAGCTCCTTGATTGTGTCAGGNATGNNTNNCATTATTTGTCACTCATTAG  
AATTAAGTCCCACTAGTAGCATTGTTTTGTGTCTGATAGATTCTTCATGCAGAAAGA  
ATAAGTAAATGAGATGGGACACAAATCTGAGTATAGCATTGTCACTACTTTTTGCTGCA  
CAGATTACTTGCAAGAAATATTCTAGTCTGGGGCATAACAAAATCCACAAATCCAGATT  
TAAAAAAGTAGGTCTATATAAGCCTTATTTAATATTTGGTATATTTTTAGGTACCTCA  
TTGGGNGNNCCTTTATNATGCCAAGGCATTTTTTGGGGATCCTGGGTTTCTTAATTA  
ATAGGAAGAAAATCTTAACATTNCNGTGGTGGATTAAAGAAACNCCNCCCCACCCTNTTT  
TTGGATTAANGNGNTTATTAAGTAAAAGCTTACCGTTNAAAGTAAGCTTCCCGAAAAGAA  
AATNTTTA

## Sequence 1077

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGAGTAACCATGACTTACTAGGTGTTATGATGA  
AGGTGTATGTGTGTATATGTGTGCATGCATGTAGATAAGTGTGTGCATTTGCACACAT  
AAGAGTTTTAAGCTGCTCCTGTCAATTATTGATGGTCAAAGGTTTCTTTTGGCTATTGCT  
GGACTCTTAAGATTGCTTGTAAATTGTCTTTTGTGTTGTTGAAAATTAAGGGTGTATA  
TTAAAGGTAGTTTTTACCCAGATCTTATATGTGTGATAGCTCACGTCTGTAATCAGAAAC  
CTACTGTTTAATGGCCACCCAATTGCCATTAGCTTCCTAGAGGGTGATTAAATAAACTAT  
CTTCTTTAAACTCATTTAAATTAAGAGACATGTTTGCATACAATGGATTAATGACGTT  
TTCACACTAACCCCAAAGTCTGCTTGCATTTCTTTGTAGGCCTAACATTCATTTTAT  
ATGCATTGATTATTATTGTTGAACCTGCATTAATTACATCGNGCATATATGGACATACAA  
TGTCATCTGCAGAAATTAAGGATTTTTTA

## Sequence 1078

GAATTGGGCCCTCTANATCNTTCTCNACCGGNCGCCANTGTGATAATTCTCCTNTAATNN  
GCCGCCCGGGCNGGTACAGACTTTNGTTCCTTTGCTTTTATTTTTTTTTTTTGCATN  
GATATGAATAGTTTCACTAATTCATTATGTTCTGTAAACNTTCTTAAACTTTGTTT  
TATGGGATTATCAGAGTAACAAAATAATGTAGTCCCTTTATGGGACTATAAGTAACCTAA  
TGCTTTTCTTTCCCTATTTTATATCCCATATTTGGTGCAATAATTTAATTCA

## Sequence 1079

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGCTCACATTCATGGGGAGGAAAATCAGGGCC  
TGTCTTTAGATAGGAGATGTATCAAAGAATTTGTGGACATATTTAAATCACAGCACTA  
CTCTTGATGTACCTGCCCGGGCGGCCCGCTCGAAAGGG

## Sequence 1080

TAGGGAGTCGACCACGCGTCCGCTGCCTCGCCCAATGGGCTCATAAACAAAGTGGCCATG  
GTGGCAGGGATAGACTTTCTCAGCAACATGGACTTTCACTACCAAGGCAGACCTGGCTA  
CAGCCACTGCTGAGTGCCCCATTTCCAGCAGCAGTGCCCAACACTGAGCCCTTGATATG

Table 1

GATCATTCTTGGGTGATCACACAGCTACATGGTGGCAGATTGATTATATTGGACTTCTT  
CCATCATGGAAAGGGCAGAGGTTTCTCCTCCCTGGAATGGACACTCCAGATATGAGTTTG  
CCTATCCTACACGCAATGCTTCTGCTAAGACTACCATCTGTGGATTACGGAATGC  
Sequence 1081  
CCCTTAGCGTGGTCGCGGCCGAGGTACACCGATGTGGCTGACATTTGGCTGGAGTCTGCT  
AAGATGTTTTCTTATNCTGGATGGACGCAGACCTGTAACACCCTGTTTTTCATCTTCTCC  
ACCATATTTTTTCATCAGCCGCCCTCATTGTTTTCTTTCTGGATTTTATATGGCAGCTG  
ATCTTGCCTATGTATCACCTCGAGCCTTTCTTTTCATACATCTTCCTCAACCTACAGCTC  
ATGATCTTGCANGTCTTCACCTTTACTGGGGTTATTACATCTTGAAGATGCTCAACAAG  
ATGTATATTCATGAAGAGCATTCCAGGATGTGAANGAGTGATGACCAAGGATTATGAAAA  
GGAAGAGGAAGAAGGANNAAGAAAGAAG

Sequence 1082  
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTNGCTGGTTA  
ACAAATATTTTAATTCATTAAAAATAAACTTAAAAATTCATGCTTAGTCTACACAAGTTT  
AACTTACTTTAGTCACTTAGTGAATTGTGAATTGGCTCCCATTAGTGGTCAGGANAATGT  
ATTTGGTGTANAACCAAATAAATCAAGCTATTATCGCCTTGAGTACCTCGGCCGCGA  
CCACGCTAAGGG

Sequence 1083  
CCCTTCGGCCGCCCGGGCAGGTACTGGAAGTGCACCTGGACGAACAAAAATAAAAAA  
AAAAAAAAAAAAAAAAAATTAAAAAANGGAAAAAAAAAAAAAAAAAAAAAAAAAAT  
NNNTTGGAAAAANAAAAAGGAAACANNANNGCGGGTTTTTAATTTNAANCATTNN  
AAATTTTTTTAANNANNCNTTNAANNNTNNNTGAAAATGTGANNTTTTNNNNNGAATNG  
ANCNTNNNTCTTNTNTGGNTGATTTTTTATGTGTTCCAAATNGTTTTTTTTANNGAANA  
AAAATTTTTTTTTNNGAAGNTANACNTNNATTNAAANNATTTATNCNTNNTAAAAATTNN  
AANAAATTTTAAATNNTTAATGGNNTTNAANTTTTAAATTT

Sequence 1084  
CCCTTAGCGTGGTCGCGGCCGAGGTACACATTTTTCTGAAATGTCCCCCGTGATTAAGTT  
GTGAACAAATGAACATGCCACATGTCAACAACTGAACAAACATGGATTGTTAGTGA  
ANAGGTGGAGGGAGGGCTAGAGAGAGGCTAGCTGTGTTGGTCTGCCAATCTCCTGTGTCC  
CACACTGGCTACAAAAATACAACCACTGGGTAGGTAGGGCTCATCTAGAACCAAAATTAG  
GAATAAGGATTGAGAAGAAACTCAGCAAGGGTGATGAATGAGTTTCAGCTCATTGCTGG  
AGTTAGCTGAAGAATGAATAGGACACAGTGGATGAAGGAACAANGCTATTCCNCGGACCT  
TTTGAAG

Sequence 1085  
CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGG  
TACCACCTAACAAATTGGAGGAAATGAAAAGACGAATCAACAAACATTTTGGAGAAAAAAT  
TTATTCTACTTTAGAAATTTCACTACTACAAGTGCTTAGTTCTTGGTTTGGTAGATGAAG  
TGAAATCAAAATTGGATATTTGGAACATTAATATGGGAGCAGAGAATCTGTGGAATTAT  
TGCTGGAAGACTGGCATAAATTTATTGAAGAAAAAGAATTCCTAGCTCGACTTGATACTT  
CTTTTCAAAATGTGGAGAAATTTATAAGAATTTGGCTGGAGAATGTCAGAATATTAATA  
AACAGTATATGATGGTGAAATCTGATGTTTGTATGTATAGAAAAATATATATAATGTGA  
AGTCCACTCTACAAAAAGTGCTGGCATGTTGGGCTACTTATGTGGAAAACCTTCGCTTAC  
TAAGGGCTTGCTTTGAGGAGACCAAGAAAGGAAGAAATTAAGAGGTACCTGNCCCGGGC  
GGNCCGNTCTAAAAGGGC

Sequence 1086  
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTGGAGAC  
AGGGTCTCGCTCTATCACCTAACTGGAGTGCACCTGGTGCAATCTCGGCTCACTGCAACC  
TTCACACCCAGGCTCAAGTGCAATCCTCCCGCCTGAGTAGCTGGAACACACGTGCGC  
ACCACTAAACCCAGCTGTTAATACACCATTTTAAACCCAAAACATTAAGAAAAATATAG  
GAACAGTAAGTAGATTCAATTTGTAAACAGACAAGCTTACAAGTTTTCTCAAATATGAAA  
GTCATACTAACTGGGAGACTGTTAACTTCTTGATGGGGTTAATCTCTAATATGAAGCCA  
CAGTCATAGCTAACTACAAATTACATATACAATGCCAAAAATAT

Sequence 1087  
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC  
CCAGAAGGGCAGACTTCAACCCAGAAACAACGTGAATTGTGATGGAGAGATGGGCTCTA  
GTATCTGAACAACGAAATTATACTTATAGACTACTTTCTTTTCACAGAACAATGAGCTT

Table 1

TCTTGGCTTTTAACAAAATTATCATTGAAAACACAAAATTAAGATCACCCATAATCCCA  
GCATTAGAGGGTTAATCTTTGTTTAAATCCTTCCAAAAGCTTAAATGTGTTTATAT  
GCCTTTTGAAAAAAATTTATTTTATAATCATTTNGGATTTACAGAAAATTGACAAAGA  
TAGTACCTCGGCNCGCGACCACGCTAANGGCGAATTCC

Sequence 1088

CCCTTNCNAGCGGCCGCGCCGCGGCGAGGTACATCCTTTGCGATGCTCAAGAGCCCATTCTTT  
TCATCATTCGGAAGCAACAGCGGCAGTCCCCTGCCCAAGTTATCCCACTAGCTGATTGCT  
ATATCATTGCTGGAGTGATCTATCAGGCACCAGACTGGGATCAAGTTATAAACTCTAGA  
GTGGTAAGTGCTTTCACATTCTTTAAGCACTAAAGAAAACCTTTAATTAGCTACCTTGCT  
TCCAGTAATCAAACCTAGAGCTCCTCTGCCTTGTGTAAGTTGCTATAAAGTATTGACTATT  
AGAATGTCTTGAACCTTGGTTACTGTGAGCCAAGTCGGTGCTCAAAGTATATTTTCATAGT  
CTCAATTATATAGTAATTTAAGTTCTGAAAAATAGGTTCTGGCTTTGCTATGGAAATATT  
TTGNGAGTATTTACTTTTGAA

Sequence 1089

CCCTTTTCGAGCGGCCGCGCCGCGGCGAGGTACATATCCCTATCTACTATGTAAAGACAAAAA  
GGCAAATGAAATGATGTAATACAATGAACTCCTCAGAAAATAAGCTCTGTAAATCTCAG  
ACTGCCTGTTTATCATATGCTAGAGTAACTTACATTCCTTTCTTGTAGAGAAAAATGA  
TGGTAAAATCCATGCATTAATCAAACTAAAAACATGAAAAGGCCAAGCCAACTACAAGAG  
AAATACAGTTGGCCCTTGAACAACACAGATTTGAACTACATGAGTCCGTGTACCTCGGCC  
GCGACCACGCTAAGGGCGAAT

Sequence 1090

CCCTTTTCGAGCGGCCGCGCCGCGGCGAGGTACCGTGCAGAAGAAGCTACCAAACAGCAAATAT  
GGAAATAGTCAGTTTTTTTTTTTTTAAAGCCTCAGTAGAAGAGTGCAGAGTTACACTGTC  
CTGTTTGGGGTGCCCCCTCCCCCTTNCGACCTAAGTGCTGCCAAGG

Sequence 1091

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTTTGCGATTTTCTAAGGGCTCTTAGTGCTTTT  
AACTAGAAAGGGGTTTTTCGTTTGTGTTGTTTAAAAGGGTCCTTAGTGCCTCTTAC  
TCCCTTCTGTAAATCCTGTGTAAATGACAAAAGTGCACAATTGATCATTGTAAGTTC  
TAGTACCTGCCCGGGCGGCCGCTCGAAAGG

Sequence 1092

CCCTTTTCGAGCGGCCGCGCCGCGGCGAGGTACGCGGGATCTAAAGTTGGGGTGGAAGGAAGG  
AGAAAAGGGGATTGATTTTAGTGGAAGAACAGAATGTTCTGAAATTGATTGTGATGGCT  
GTATAATCCTGTGAATATACTAAAACATTGAGTTGTGCACTTTACATGAGTGAATTGTGT  
GGTATGTGAATTTATATCTCAATAAAGCTATTTTTAAAACGAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAGGTNCCTCGGCCGCGACCACNCTAAGGG

Sequence 1093

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAGGTACCTGTATCTTGATCACCAAGAGAGCAC  
ACCAGCCTGGACAGCAGCACCATACGCTACAGCTTCATCTGGGTTTATGCCACGGGATGG  
TTCTTGCCATTGAAGAACTCTTAACCAAGTTGCTGAATCTTGAATTGAGTCGAGCC  
ACCAACAAGAACAATTTATCAACCCGCGTACATGCTAAGACTTCACCAGTCAAAGCGAA  
CTACTATACTCAATTGATCCAATAACTTGACCAACGGAACAAGTTACCCTAGGGATAACA  
GCGCAATCCTATTCTAGAGTCC

Sequence 1094

CCCTTTTCGAGCGGCCGCGCCGCGGCGAGGTACATGCCAAAGACTTCGCCATAACTTTCAAGT  
TAATTACACCTGCTACTGTTTCACTTAGTGGCACTTTGCTTAACCTGTTATACACAGAAG  
GGGTTGAGAAGACAAAACACTGTTAACTTCATTATACCTTTGACAAAGTAATATTATGTG  
ACATGATGTGTTTTCCCAAAATATTAGAGCTGCAGATTTAGCTGATTCAATTTATGGGA  
CAATTTGTTATGTGATCTAACAATTTGGCATATAATCTAGAAAGCAGCTTTATGATCAA  
AATTGATTTTATATATACATATAAAT

Sequence 1095

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAC  
TTCAAATAACATTTTTATTATATAAAATGTAAAAATCCAGCAAAACCAGAAATACGGA  
ATATATTTTTCTGGGCTTTCACATTTGTTGATTTTTATTGCGGATCTTTTCAATACAAT  
TTACACCCTCATCCCCATTTCCAGTCTGATTATACAAGNGCTAAGTGGCANAAAGGTCTG  
GAATAAATACATCAAAAAGAAGAGGCAAGCTGTGAACTAAGTTGCA

Sequence 1096

Table 1

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATCTGATACAAAATCTGAAAGAAAGAACAG  
TCTTGTAAATCTTTACATACTTGTAAGCATTTCTCAAATTCAGCTTACTTTCAAATA  
AAGTTCTTACTGTCTAATATGCTCTCTTTAAATTTATTAAGTATTTTAAAAATACCCTGG  
CTCTTTATCTAGTTTCAATCTAAGTATAGAAAAGCATTCTCTGTAAGGCTGTCTTAAAAA  
AAAGAAAAAAAAAAAAAAAAAAGTACCTCGGCCGCGACACGCTAAGGG

Sequence 1097

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATCTGCAGACATACTGAGTGTACCGTTGAA  
GAGAGTGGAGTGGCTTTTGTAAGAAAGTTCAGGTACATGTCCAGGGGCCAGCCTCTGGG  
CCCAGTAACTCAGCTACTCTTTGTGGCTTTCTTCATGGCTTTTTTTGTGGGCTGCCACGC  
CCATCTTTATCACCAGAATGAGGAACCTCTGGAAGTTAACTGCACCATCAGTGTGATAT  
CCAACTCTTTGAACCAGACGTCTGCACCTTTTTCTGATATACTGAGGACACTCGGTCT  
CTAGCAATTTCTTCAGGTATCC

Sequence 1098

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTACCATTCCATACAATGGAATATTACCCGAT  
GAAAAAATAAGTTGAACACATGCTACAACATGGATGAACTTTGCTTATAAGAACATTGA  
AAAGAAAATGCCAAAAGAAAATGAGTTTTAGCTCAAATTTTTTAAGAGGCCTAGCCTG  
CTCAAGATATCCTGTTAAAAAANAAAAAATCTTCCCATATCTAAGGTGAAA  
ATAAAAAACATTTTTAAAGTTNAATATAAAGAAATGAAATAATTCAGGTCAAGTTTAT  
TATACAGAAATTATTAATGGGTGG

Sequence 1099

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGAGGTCTCCATTCAGTAGGTGGCCC  
GGGATGAAGGCCGTGTTGGGGCTAAACCACACTCTGGAATTCGTACGAAATTCCTCGC  
TGTGTAACTTGAGCAAGCCATTACCTTTCTTAAGCCATTTCTTGATATTTACAGAG  
CCTCACCAAGTATTCAACGAGAACATGTAAGTGAATGCTTCACAAATGCCTGTAAAT  
AATAGATGCTTAGAAAATGGTAGAGAGAGAAAAGAGCAGTCTCTGCCCTTTAATGTACCT  
CGGCCGCGACACGCTAAG

Sequence 1100

GGGGNCCCCGGGAAAAATNATTTTGGGGGGGGGGNCCCCCCCCCTTTNCCCTTTNANNA  
NNTTAAAGGGCCCCNNTTGGGNCCCTTCCCGGAANGGCCCGGGGGCCCCCCCCGGCC  
C

CCCAGGTTNGGTTTGGGANTGGGGGNANTTANTTTCTTTGGCCAAGGAAAATTTCCCGC  
CCCCCTTTTTTCCGGAAGGCCGGGGGCCCGGCCCCCCG

Sequence 1101

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTGTTGGCTAGGAGCTGAGCTTATCACAACAA  
ACAAACAGCATTACAGGAATTGTCTTATATGTGGTCAGTTGTAAAGCTGATAAAATTTAT  
CTGTAAATCTTGAAAACCTAAAAATTTACGCAAGAAAAGACATCACTTGTCTACTGTAA  
CATCCAAAGGCTTTGCCAGTATGAGCTCTTTAAGTCCTCTGCCTTGATGATACAATCA  
CAGCATCACAACTGCGATCGCTTTGGATATTTCTGAGTCTGTGGATGAGATTCTTC  
AAATCCCTCCACTCTCTTCAACTGCAACTCTGAATATTAAAGTGAATCAGGAGAGCCCCA  
GAGGTCTTTGAATCATCTCTACAGAGAATGAAATTTCTTCTTTGTTTGGCTGATGGTT  
TGAGGACTGGTGTCACTGAATGGCTCGAGCCCCTGGAAGCCAAAATCTGCTGTTGAACCT  
GTCAGGAATTTCTGAATGACTTAAATAAGCTGGATGGGATTTGGTGATTCT

Sequence 1102

GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGTACGCGGGATTCCCCAT  
GTTTTCTTCTAGAAGTTTTACAGTTTTACGATCTACATTTTTGGTCTATGACCCATTTTG  
AGTTAAATTTTGTGTAAGGTATGTTATACATGTGGAAGTTCAATTTTTTGCATGTAAATA  
TCCAATTTGTTCAACACCATTGGTTGAAAAGACGGTATGTTCTCCTTTGAATGCTTCTGC  
GCCTCAATTAATAATCAGTTTACTCTATCTGCATAAGTCTACTTCTGGGCTGTCTACTCTC  
TTTCATTGATCTGTATGTCTGTCCATTTTCCAATACCACTGTCTTATTAAGTGTAGTTTC  
ATAGTAAACCTTGAAATCATAATTCTATAGTAAGTCTAAAAAATCACACAGGTTGGAAA  
TGCACAATTAGTATGCTAANATCAGAGCAATCTTGTGGTTCANAATGGTTTATGGGAGA  
AATATTAGCNCAGTGNNCTTCACATGCCTCATTGATGATAACTGGAGCTTAATGTGAA

Sequence 1103

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTGTTAGCGTCTGCGTGTGTATGGAAAGTTGA  
CAAAAAATGGCATGAAAAGATCATGATTGGATTTCTTTTAAACCTGCCCTTCTGTAAAA  
AATAGTTTATATATTTTAAATTAGTAGGTATGTGTGGCTTCCTTTTTCTAACATTCC

Table 1

CAGCAAATTTTGTGCTGCTAAGACTATCACTGTAAAGTGAAAATTACAGGGAAAAATGTG  
ATGAATATACCGTAACCTCAAAATGTGATATTTCTTAAATCACTCTTTATGCTTTAGG  
AACTGGTTGGTCTCCACTTTGATTATTAGTGTAAGAGCCTGAGTATACGTGGATTTTAT  
TGTAATTTAACTCCTTGTCTTTACTTGGGGCACCAGGGCCCTGGAGGGCTTCCCTA  
CTTTCCCACTATGTTAACAGGTAAATNCTGATTTTATGCCTTTAGTTTGACTTATTTT  
ANCNAAATATTAGAAGTTATTGCTTTTAAATGTTTAATGTGGGACTGAAATTTTCATCT  
TTTNNTTNAGAAATCTATGAAGTGATTCAAATAACGTGGGCCTAAAGGCAAAGNGGGG  
TATTTTGGNAAATCTGAAATTGNTTGGCATCTGGNCCAAAAACCTAAANTANTCCCGT  
GGCCCTTTTTTTTTTTTTT

Sequence 1104

CCCTTTGAGCGGNCGNCCGGGCAGGTCACTATAGGGCTCGAGCGGCCGCCGGGCAGG  
T

ACTTGCAATGTTTTGACATTAAGAGAGAGACTATACATTCACAGAGGTTGGGAGCTTCTG  
TCTAGCCTGTTGTCCAAACTGCTTATAAAATTTAGCAACTAATTTTCACTTTTGACAAC  
TATTTAATTCTAGAAAATAGGTTTATAAAGATTTTCTTAAAGTGTTATCTATCCTTCCA  
ATGACTTATTATAAATTTAGAATGTATTTCTATAGGGTGAAAAATCTCCTTTAGTCAG  
AATTGAACAGTTTTTATGAAGAACATGTTACACCATGTAGAAACATGGGTACCTCGGCCG  
NGACCACGCTAAGGG

Sequence 1105

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGNACT  
TTTTTTTTTTTTNTNTTTTTTTTATATGGCAATTTTATATTTATTTTTGCAATTC  
TTGGATAAAAACCATTTGAACAATGTTTGGTAAGNGTTATTCTCATAAAAACCTCTTTN  
AAAATGAAGGTTTTNTATTTTCCACAAAAGTTAA

Sequence 1106

CCCAATTGGGCCTTTNGATGCTGCTCGAGCGGCGCAGTGTGATGGATTCTGCAGAATTCG  
CCCTTAGCGTGGTCGNNTTNGAGGTACNACCTGCATGGTGTATGCACACAGAGATTTG  
AGAACCATTGTTCTGAATGCTGCTCCATTTGACAAAGTGGTGATAATTTTTGAAAAGA  
GAAGCAAACAATGGCGTCTCTTTTTATGTTCAAGCTTATAATGAAANTCTGTTTGTGAC  
TTATTAGGACTTTGAATTATTTCTTTATTAACCCCTCTGAGTTTTGNATGTATTATT  
AA

Sequence 1107

GATATCTGCAGNNNTTCGCCCTTTTCGAGCGGTGCNCCGGGCAGNNTCNTGAGATGTTACA  
CTAGTATTTTGAAAAAGTATAAAAATGTGGCCGGNCGTGGTGACACATGCCTGTAATCTC  
AGCCACTTGGGGAGGCCAAGGGCANGGAGAATCGCTTGAACCTGGGAGGGCGGAGGT  
G

CAGTGAGCCAAGATGCAGCATTGCACTCCACCTGGGCAACAAGAGTGAAACTCTGTCTCA  
AGGGTAAAAAAAAAAAAAAAAAAAAAAAAAGTACTTTTTTTTTTTTTTTTTTTTGGG  
TCATTAGTTATTAATTTTACNCNAGTTAACACTTGAAAAATGAATGATATTTAAATCAT  
TGTCACCTACTGAGAAGCAAGAACCAATGAGTGAGCCCAAAGGAGTCTACTACCCATACC  
TATTAAGGGTAGGGAAAGGGTTAAGT

Sequence 1108

CCCTTTGAGCGGNCGTTNNGGCAGNTNCAATGAAATGTCTTTAAAAAAGTTTGTGT  
AATTGTGTATGTAATCTGACAGTAATTCAAAACACAAAATCACACATTTTCCCTAACTT  
CCCATGTTCTGGATCTGGGGACTGCAATATTACAGAAATATGCAAAAATAAGTTTAGTGC  
TCAGAGATAAATAATTTTNCCTATTTCAATGCATCAATGCGCAAAAATTTCAATTCAAAA  
AAGCCAACCACTGCTATATGCAATAAATAAAACATTTGACAACACTTTTATAATCAAAC  
CCAACATTATACAAAAAATGTGTGGCACCCTGCACATACNTGTGCATATGTGTATGCAAT  
GCCTATTTAAGAAAAAAGGTGTCTTGATGAAAATGATTTTGAAAATAGTCACTGACACAC  
ATTATATACAAAACCTTTTATATAAAAA

Sequence 1109

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTGGGCCTTTAATCCCATCTAAACAATTTG  
CTGTTAACGAACTCAAAAACAGAAATACCTATATTTTCTCGCTAAATCCAATTTGTTACC  
TAGTAGTAAAGACACTAGATCTGCAGGTCCTAGTACAATCTATACATAAAAGGCCTT  
CAGATTTGAGGCACAAAAAAGGGCAAAAAAGAAAAAAGAAAAAAGAAAAAAGCTTCT  
ACACATTTCTTCTTTTATCTGCAATATGAGAAGGAATCCTTTCTAACTCTAATAACATA  
TTACAAGAATTAAGAACACGATTGTCGGGGAACCTCAGATGTTGGCAAAGCTTAAAAATA

Table 1

AAAAACAAGGGCTGGGTGCAGTGGCTCANGCCTATAATCCCACACTTTGGGAGGCCGAN  
GCAGGAGGATTGCTTAAGCCCAGGAGTTTGGGATCAGACTGGACAACAAAGTGAGACCCC  
TATNCCTATCTTNTNCNAAAATTTTAAAAATTAGCTGGGCCAGTGGTGGTGGTGCCTGT  
AGCCCCAGCTACTTANGANGCTTAAATGGGGAGGATCCCTTGAGTNCAGGANTTTGAAAA  
TTGCNTGAGCCTTTGATCAAACTTTACTTTAACCCTGGGGTGGACCANAAACCAANGGGG  
TTTTAAAAAAGGGGAAAAAANANAAAANGGGGAGGTTTCCCCCTTGGGCC  
CCCCGGGGGNC CGGGGGCCCCNGGNTTTTTTTGAAA  
Sequence 1110  
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTACAGGCGTGAGCCACCGCACCCAGCC  
AAAAGTGAATGCTTTTAAGAGCACCAAGTCAACTCTTGAGTGCTTTGCTGCTTATAAAT  
TTATTCCACCAGATACCCTANATCATCTCTCTCAAGTTCCAAGTTCCACAGATCTCTAGA  
GCAGGGGCAGAATGCTCCAGTCTCTTTGCTAAAGCATAGCAAAAATCACCTTTGCTGCT  
CCAGTTCCCAATAAGTTCCTCATCTCTGTTGGAGACCACCTCAACCTGGACTTCATTGCC  
ATATCAAGATCGGCATTTTGGCAAAGCCATTAGCAAGTCTCTAGGAAGTTGCAAACTTT  
CCCACATTTTCTGTCTTCTTGCACCCCTTCAAACCTTTCAACCTTTCTGCTGCTACCT  
AAGTTCAAAGGTACTCCACATTTTCAAGTATGGTTACAGGAAGCAACCCGNTTNTACCG  
GTACCTGCCCNGGGCGGGCGNTCGAAGGGCGAATTCACACACTGGGCGGGCGTTACTA

## Sequence 1111

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTATGTTTTAATTTTTGTAGAGAAGGGC  
TCTTGCTATGTTGCCAGGCTGGTCTTGAAGTCTGGACTCAGGTGAAGTGATCTGGCCA  
CCTCAGCCTCCCAAAGTGCTAGAATTACAGGCGTCAGCCACCACGCCAGCCTGNAGCCT  
ATTTTTATAAATGAAGTTTTATNGGAACATANCCATGCCTGGNCATTTACATACGCTAT  
GGCTTCGTATGCCATATAGCAACAGAATATATTAACATTTACTACCTGGCCCTTTCAG  
AAAATGTTTGACAGCTCCTGCTGNATAAACATAAAATCTGCCAAAAATGCTGATATTAC  
CCCACATGGAGAAACACTGGAACCCCTCTTCAGAAATCAGATGCCAATTTAAATATTACT  
ATCAAGAGAAATACACTCTGATTTTTTTTCTCTATTCCCTTTCTTTTATTTTCTTTTTG  
AGACAAGGTCTTGGCTCCGNTGNCCAAGCTGGAATATGATGGNGCCATCATAGCTCACTA  
TAACCTCNGATTNCTGGGCTCAAGTGATCCTCTTGGCTTANNCTCCTGAGTAGCTGGGAC  
TATNGCGTGGGCCCGCCCCACCGGGCTAAATTT

## Sequence 1112

GCGCTNGTGTTTCAATCCCTTACGCNCCGACGCCNTGNTGATGGTCTAACCAAATTCTAG  
TNCCTGCTACAATGGGATGGCCTGGGGGATTAATGGAACTTTGCCGGGACCAACTTATGA  
TAAGTGGGAAAGCACTTTAGGGCTGATCCCATATANGTGGTGAACACTGCACCTNTGGCC  
AAATGGACACGGAGGATAANCACCATNTGACACTGGGGGTGGTNCAGTTGGAGCTCTGGA  
AGGAAAGNCTTCTGGGGTGGATCTCTAACCAATTAATACCTCNGCCGACCCGCTAA  
GGCGAATTCAGCACACTTGCCGGCCGTTACTAGTGGATCGAGCTCGGTACCAAGCTTGG  
C

## Sequence 1113

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTCTTTTTCTTTTTTTTTTTTGGAGAC  
AGAGTCTCTCTGTCACTCAGGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACC  
TCCACCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAG  
GCAGGCCACCACACCCGGCTAATTTTGTATTTTGTAGTAAACGGGGTTTCTCCATGT  
TGGTCAGTCTGGTTTCGAACCTCCAGCGTCAGGTCATCTGCCTGCCTCGGCCCTCCAAAG  
TGCTGGGATTACAGGCGTGAGCCACCGCGCCAGCCACTTCTGTATTTTAAAAAAGTGG  
TAAGATTTGAGTATTACTGGGATAGAACTGAAGTTGGGGGCTTAATTTGATCTATCAG  
CTTATTGAAAACAAGGACCTTTTAAAAAATGGTTTTGTTAGGTTGGAAGAAGTGAAGTT  
TTAATTCGTCATTTAANTTAGCCNAGTATGTTGATTTTTTTTGGNGAAAGGTACCTG  
CCCCGGGCGGGCNGTTTCAAANGGG

## Sequence 1114

CCCTTAGCGTGGTCGCGGCCGAGGTACCACANGGACCCAAGGACCTCTAGCTGTGTTTGG  
TGAGGCAGGTCTTTGTCAATTAAGTAATCCTGTGAGTGGTGTACCAATCTTGTAACCT  
ACGACAAAGCACTGTTGCTGAGATACTGTGATTTATTTTCTTAATGGGCAGTTTTTTA  
TATATACGTTCCATTTTCAAGACAGGTGGTGTGAGTTGAATTTGCAAGTTCAAGTG  
AAACATGGATCTCTTTTTATTTAACTCCCTTTCTTCTNCTAAGGTGCTTAATTTCCAT  
GCTTGACATCGTACCTGCCCGGGCGGGCGNTCGAAAGGGCGAA



Table 1

## Sequence 1115

GTACAGAAGGGTTTCACCATGTTACCCACACTGGTCTCAAACCTCCTGGTCTCAAGTGATC  
CATCTGCCCTCAGCCTCCCAAAGCACTAGGATTACAGACTTGAGCCACCGCACCCCTGTCCC  
ATCACTTTATATTTTCAAGAAGGTGGTGAGGGTGTGTTGGTGCCTGGGGTCTCTAGCTGA  
AGAAAAGGGAAATTTTCTATCTCTGGTAATGTCTTTATGGATATAAACCTCAGTTAACT  
GGAATAGCTATGGAATGTATGCTTCTGGTTAACTAAAAATTAACCAGTAAACACTCTGTA  
NTAACCATACAGAAAATACTTCTGCTTTAAAAAAGTACCTGCCCGGGCGGGCCGCTCGA  
AAAGGG

## Sequence 1116

TNTCTGCANAATTGCCCCCTTAGCGTGGTGC GCGGCCCGANGTACCATCCCAAGGACACAAG  
TTTCCAGGCAGCAGCCTNCAAGAATTTTGTAGAGATGTCCCATCACTTATGGCCTACAC  
TGTTACATCTGGACTCTGGATTGCAAGTGAAGGAAGAAAGTGAATGAAAGAGAAAGT  
GGAACAAATATTGGCAACAGAGCCCCCAGAGGACAGTTGTCCCTTTTCCAACAAGTTAAG  
TGGAAAATGCTGTTGCCATGGGAGTACCTGCCCCGGCGGCCGCTCGAAAGGG

## Sequence 1117

TTTTAAANNCATTTTTTTTTNCAGGGGGNGAAAAAAGGGGGGGCCANTTTTC  
ANCTTGGAAAAAATGNNTTTTAAAAAATNAAAAAANAANTTTTCAAANCNNNAAAAAN  
NANNACCNCCCTTTTTNAAAAAATAAAAAAANNNCCCCCGGGGGGCNTNAAAAACCTT  
TTTTTTAANTTTTTTAAAAAACCCNCCCNCCNCCATTTTTAAAGNGGTTCTNTTTT  
NAAAAAATAAANATTGGTTTTTAAAAAATAATCCCCCCCNATTTTTTAAAN  
CCAATTTTTNTTAAAAAATAACCCGNNTTTTAAAAAAGNGGGGATTTTTTCCA  
NNTTTAAAGGGGGAAAAAAGGNTTTTTTTGGGNAAAAAAGNCCCCCCCCA  
AAATTTTTGAAAAAATAAGGNTCNCCTTCCAGGNNTTTTAAAAAATAAATAAANT  
TTCCCCCCCCAAAAAATAAAGGGGGGGTTTTTTTTTTTTTTTNGNAAAA  
AAAAAATAAANGGGGGGGGGCCCCCGGGTTTTTTTTTAAAAAATAAANTTTTT  
GGGGGGGGGGTTTTTTTTTTTTNNCCCC

## Sequence 1118

CCCTTAGCGTGGTGC GCGGCCGAGGTACTTTTTTTTTTTTTTTTTTAAAGAAA  
AAGTTGGCCAGCCCCAGGGAATAATTTTGA CTGTCTAAACAACCAAGAGGCGC  
AAATCTGGCCCTCTGACTGTATAAATTAAGTTTACTGGAATAAACCAAGTCCATTGAT  
TTATCCATTGTCTACATACNCTTTTAGGCTCGATGGCNCCTGTGTCTACAAANANG  
TTATCTAGACAAAAAGCCTAAATATTACCGTTTGCTCTTTATNGAAAAAGTTTGCCATT  
CCCTANTCTAAGGGTTANATTCTGACTTATCATGTTATCTACCCCCCCCCGNGTACCTG  
CCCCGGCGGCCGTTTNAAGGG

## Sequence 1119

CGCCAGTGTGATGGGATATCTGCAGAAATCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC  
AATATGGAAAGGTAAGATCCATACCCAAAGTTAGGTAAGTGTGAGTTGCCCATGTAAA  
TAGTTTAAACACTGTAGAAGTATTANAGAGATCCTTAGGGAATGATGCAAGTGGCATTG  
AGCTATTCAATTANAGAAAAAGTTTAAAAACATGCNGTCTAAAANGGAAGAGATNGAGGC  
CATTTGAAAAAATNTTCTTAAGATTAAACAGCTGGTTATCCCACTGGCTAACTTCGGATGG  
TGNGGCANAAAGCACCGTNTTGGCTAAACAAAGNGGGAATGGCGTTTAAAAATAGGAAA  
GGGCAAGGCTAAANATTTTGAACCTAATCTACTTGGGTGCAGGGAATAACATAGCTTAT  
TCTTCATGAAAGTNTTTTTNTTACACTACCTAAACAGNTTATACATTTGCTTTTATCTG  
GAGGGATGGAAAAACCAANTTTTTTTTTTGCCTTTAATCCTTAAATGAAACTAACT  
TTTNTNTTTNGGGGGTTGCCAAAAA

## Sequence 1120

CCCTTAGCGTGGTGC GCGGCCCGAGGTACACACATCTTTTTGAGATCCTACCTCAGTTCT  
TTTGAGTATATAGCCAGAAGTGGTATTACTAAATCTTACGATATTTCTATTTTAATTTA  
TTGAGGAACCACTGTAGTTTTTATAGCAGCTGCACCATTTTACGTTCTCACCAAGAGTG  
CACAAGGGTTCCGAGGTTCCACATCCTCCCCAACACTTGTTATTTTCTGCTTTTTTTAG  
ATTGCAGCCATCATAGTGGGTGTGAGGTGACATTTTATTGNGGTTTTGATTTGCATTTCC  
CTAATGAGGAGTGATGCTGAGCATCTTTTATATGCTTACTGGTCATTTGTATGTTGTCT  
TTGGAAAAATGTCTATTCAAGTCCCTTTGACTATTTTAAAAATTGGGTATTAGAAGTTAT  
CGTTGGTGTGACTTGTAGGAGTTNCTTTCTATATTCTGGATATTAATCCCCCTATCAGA  
TATATGATTTGCAAAATCTTCTCTTAATCCATAAGGGTACCTTTTTCACTTTTGTGAA  
TGGGGTCTTTGATGNATAGAAAGNTTTTANGNTTGAANANCTAAATTATCNGGTTTTA

Table 1

CTTTTGGGGGGCTGGG

Sequence 1121

CCCTTAGCGTGGTCGCGTTCGAGGTACTTTNTTTTTTTTTTTTTTTAATATTTAGTAG  
AGACGGGGTTTCACCGTGGTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCCACCC  
ACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGTGCCGGGCTGAAAAAT  
AACCCTTTAGATATCTACAGCTTTAACTGTGTGCAGTCATGAAAAGCAGACATTAGAAG  
TCATTGGCATTTAATAAATTGCAGTAAATTATACAGTAAATACATTACAATCATTAA  
ATAGGCTTTAATGAGAAGAATTTAATAAATAATCATTAAAAAGACAGCAGAATTTTATTC  
TGGTCTCAATATGGTNGCTGCTCTTCTTATCAAATCTATAATAAACTATNTGACTATNA  
TATAGATTTTCAGGAGCTAAAAAAGCCTTATTTTTCAAATTAAGAACNATTTTAATT  
TTGCNAAATCAATNAGCATTACTGAAGTTTAAGGAAATTTTGAATAAAATATATGGCAN  
TTANATNCCGCCTAAAAAGAATGNAATCTTAANGATTNCTTTTTGGCTCAGGGGCNTAAA  
ATTCCA

Sequence 1122

NGCCCTTCGGNNTTCCGGGCAGGTACGCGGGGGCGGCTCGTTCAAGATGGCGGAGCTCGA  
CCAGTTGCCTGACGAGAGCTCTTCAGCAAAAGCCCTTGTCAGTTTAAAAAGGAAGCTT  
ATCTAACACGTGGAATGAAAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1123

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTAC  
CTTTTATCCCTCAAAGGACCCTTCTTGGGTTTTGAATGGAAGCCTTTATTCCGGTTAAGA  
TGTTTTCTTTATTTTGGCACTTCCATCTTTTTTGTGGCCCTCGATCCTATTTTCCCTG  
ACTCCATGCTTGGTTGGCCCTTATAAACTTGTGCCCAAAAGATTGTGGATTAGACTTTC  
CGAGGACTTACCTGTCCTAGGGGAGTAGGCAAGCACTTCACTAGGGAGGGGGTGGGGGAA  
AGGAATGACACATGACATACATGGCATAACATTAAGCAGTTGATCATATGTCTGACTGG  
GTTCCAGTTTCTTGGGAATGTTGGGTCCCCTTGTTCAGGCTTGCATATTTAACTAAAA  
ATTTCAAGTCTATTGTTTTAGTAACTTCATTTATANNCTCCATAACAAGTTAGAAGGA  
TGTATCTGCTACCATTTATTCCTATAATTTTAAGAAAGNTGGGGCTTGACATTATACTCA  
TTTAGTGAGAGTANATGCCAAAAAAGTGAGGGG

Sequence 1124

CCCTTTCGANCGGCCGCCCGGGCAGGACGCGGGTAGGGCAACTTGGATGTATGCTTAGGG  
TTCGCAAAAAGTAAACAAAAATACAAGGGAAAAAATTATTGACAATGAAGTCTTTGGT  
AGTGATTTGTGATTTTGTCTTTCTTGATTAGTAACCAACAGCACAGCCACCAAGAAATT  
ATGCACATGTGGGACCACGTCAAGCTGAAGCGTTTGTGCCCAACAAAGGAAACAATAAG  
AAAATAAAAAGGCACACTAAAAAATTACAAGTTTGGGATAAGGGATTATTTTTGAAAAGGT  
ACCTCGGCCGCGACCACGCTAAGGG

Sequence 1125

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGAAAAAGACACATTTAGATAAACTGAAGCAG  
ATTAAGTGACTTTATAAGACAACATCTTTGTTTTATGTTTAAATTTCAAGTATGGTTAA  
GCACTAATTTAATTCAGTGCTTTCTGCTTATTCTGTTTCTAGTAACTCTTACAGAAACAA  
GTGTAGTCAGTAGCCAACATACATCCATGTCAGCCTATATATGACTTACTAGGAGGGCTT  
AAGTTTTTTAAAGAGATGAAAAATAAAGAGAAGGTCTAGTATTTTCTCCACATTCCA  
ACAGATCATTTTATGTGCCCCCTTTGGGTGAGCACATTCCATGTTGTAGACCATTGATCA  
TAGTAGTCAGAGCATGGAGCTCTGGAGTTCAGAAAAANTATTTATTATTTGGTGGTATGA  
CAAAAATAATTCCATGAAAAAAAAAAAAAAAAAAGTACCTGCCCCGGGCGGCCGCTCGA  
AA

Sequence 1126

CCCTTTCGAGCGGCCCGGCCGAGGTACTTTACTGTTCTTTTAAACCTGGAGAAGCCTC  
TATGGCTTATTCCTTAGAAGCAACAAATGAAATGATGTATAAAGCATCAAGTCAAAGAT  
ACAGAGAACTGGACACATCCACTAATTGTTATGACAATCAAAGAAGTCATCTCCGTAAAT  
ACCTAAGGGTGTCTAAGGCTATAAAGGTCAATTTGAAAGCCAGTTAGGGATCCACCCGT  
GTTTCAAAAAGTGTCTTACACTCATGTTTGGCTTTCAGAAGTGATATGCCTACTAAAG  
CTGTTATTTTGAGACTATCCCGCGTACCTCGGGCGGCGACACGCTAAGGGCGAATTCCAG  
CACACTGGCGGNCG

Sequence 1127

CCCTTTCGAGCGGCCCGCNCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGCCT  
CCAATTCATTTAATTTTGTCTTTGTTTGTCTTTCCTCAAATATACAGTCCATCACC

Table 1

TTGGCTCAGTGCATGTCACCAAAAAATTCTCCAGGGATTTTCATAGTCTCGGTGGTGTGGCT  
GGCCCAGGACTATCCATGCAGGGAGGCCTGCACCTNTGACAGTCGGCTGCANCTGGGGGT  
GCCCATCTTNTGTGCTCTGTGGTACTNCTACACACATAAAATTCAGGAAATGACTAGATGA  
GCCTGAGTTGGCTTTANTATTAATGTGCAAATACAGTTTTCTATACCAACAAACCC

Sequence 1128

CCCTTTCNNTNNTGCCGCCCGGGCAGGTACTATCGATTGGGTGGGGGTGATCTATTATC  
ATTGAGTAGGGAACTTACTAGGNTAAATAGAAAGTATATANAATGTATTTGGTTATAGA  
TATGTGAAGGAAAAGGCATANTTATATGGTCATCCATGCTGGGGAATATTTNGNAGNTNT  
NTTTTGTGAGAGAAATNGNNCATNTTGGATCAATAGNATTAGACAAATATCTTGNGCAT  
CAAGAGACCTGGAAACATG

Sequence 1129

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGTGGCGCAATCTT  
GGCTAGTGTAATTCAGTCTTTTGAATAAATGGAAAAATAAATTGTATGTTATTTTTATA  
CAGAAAAAAGGCCTTAATATCATAAGGTTTTTTTATAGCCCTCAAAACTGATTTTTTAA  
TGGAGGTAGGCAACTGAGAAAATAAGCATTTAAATTAGTTTTTACCCCAAAGCCCCCAA  
AATTTTGCTTACAAAATTAGGGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1130

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTCTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGANAACTTTTTTTTTTATN  
GNNANNNNAATTTTTNTCNGGGGGGNTTAAAAAATTTTTTTTTNNNGNTTCCNNNTA  
NTNNATTTTAANGNNNGGNNNTTTTTNNCCCTTTGNTNTNGGCNAAAAAAAAAAAAAT  
TTTTTTNTTAAAAACNTAAANGGCTTCCCTNAANANAAAAAANNATNTTNTTTTAA  
AAAAATAAGGNAANAAAAANTTTT

Sequence 1131

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCAGAGGGAGAGGCTAGCAGTATTTTTTAA  
TTGGTTTCTAAATTTTTTATAGCTTGATGGTAGATAACACATTTGCTTCATTGAAGTAAT  
CTGAAAAACCAATCCTCAAAAGACCTCTCAATTAGAATTCTTAAATGACAATGTTTTCTT  
TATCATATATTTGAGAGATTGATTTAAAGAAAAATAATGCTTGACTATCTGAAATAATAT  
TTTAACCTTATCATAAAATCTCTGCCTGGTAGAACAGCTGACTGTGGAAGGGTAAAAATGC  
AGAGAACCAGTCATTGGGATCTCCCTTCTACTTTGTACTGAAATCTTGAACCTGTAGA  
ACATTACTTTATCACTGTGTCTTTCTAATGGGGAAAATAATAAACAACCTGCAGAGTA  
TTTTTTAAAGTTTTTAGCTTTAAAAAATAAAC

Sequence 1132

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATCACATGGTGAAA  
GCAGGAGCAAGAGGGATAGAGGTGCCATACACTTTTAAACAATCCGATCTCACAAGAGCT  
CACTCACTATTGCAAAGATAAECTCCAAGCCGTGAGTGATTGGCTCCCATGACCTGAACAC  
CTCCCACCAGGTCTACCTTCAGCATTGGGGGTGACAAAGCAACATGAGATTGGGCAGG  
GATAAATATCCAAATTATATCATTCTGCTCCTGGCCTCTCCCAAATCTCATGTCTTCTCA  
CATTGCAAAATATAATTATGCCTTCCTAACAGTCCCAAAAGTCTTAACTCATTCCGACT  
TAACTCAAAAATTCAAAGTTGGCCAGATGCAGTGGCTCACACCTATAATCCAGCATT  
TGG

Sequence 1133

GATATCTGCAGAATTCGCCCTTAGCGTGGTGCGGGCCCGAGGTACTGAAACTACAGGTGT  
GAGCCACCATGCCTGGCTTAAACATTTGTTTTAATTAGCCAGGCTTGGTGGCACACATC  
TGTAAGTCCCACCTACTCAGGAAGCTGAGGTGAGAGGATCACTTGAGCCCAGAAGTTCAA  
GGGGCAGTGATCACTCCATTGCACTCCAGCCTGGGTAACAGAGTGAGACCCTGTCTCGCC  
AAAAAGAAAGAGGTTAAGGAGGAGAAGACTCTAACCAAAAGAAGTAAGTATATTATTGA  
AAATTATTTGATAGCAATCGCAATTATTTGGATAACTATTTTACATATTGTAAGCCAA  
CCAAATAGGGTCTTAAAAAGTTTCAAGACCAAAATGATTCATGTTCTCTACTTCAGCCTAA  
AAAAAAGTTAAAGAATTCTTCAATTACCAAAAGAAGTATTCTATANTTACAAAAAGA  
CTTGAAACTTTTCACTGAATGCATCTCTTTGTTACAAAACCTTTAAAGGAGGTAGGGGG  
GAACCTCATTGATTCATCAATGCTGNCTGGTTTTTTAAACCCA

Sequence 1134

AGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTT  
NTTTTTTTTTTTTTTTTTNANGAGCCTCTGGTTACGTTNNCTTGATATTTACTTTCTC  
ATCCTTCTCTTTCTTACCTTCTCTTTGACTCCTTATCTTTCTATGCCAACCCCTCTCT

Table 1

AAAAAGTCAGTATGTAATATAGTTGCTCTTTATTTAAAAAATTTTAAGATTGATATTTG  
CTTACTATCATGTTACGAGGCTTTATTTATATGTGTATTACAAATATATTTGTTAACTAC  
TAGCAAATATTTTATGTAATAACTTCGCTATTTTATTAAATCCTGTTTTTAAAAATTCTG  
AAATGTCATTTTAAGTATAGGAGACAGGTGAAATTGTTCAAGGTTACTACTAAACCAGGG  
AATAAGGGAAGCTTAGATTCTTGGNCTTTTTTCAAAAAAGAAAAATTTTA

Sequence 1135

CATGCTCGAGCGGCCCGCCAGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTC  
GCGGCCCGAGGTACAGAGGAAATGGGACTTTGCAATTATATTTTCTAAGTGGTCTGAAC  
TTGGTCTCACTACCCACATCACCTGGAATGGTACCAGGCCTCAAAGGACTGCCCCACGG  
GCTAAACAGCTGATCCGCTCTCTGAAGCCAGACAGTCTTATCTGGGAGGTCTTTACAGA  
TGCCACTGTTGAGGGCCCCGAAGCTGAANAAAAGTGACTCCATCCTCAAGTAGTCCTTATC  
TTCTTTTGAACCAAGCCTTGCTGTTCTNGGGCCGCAATTTGTGAATTTGGNCTGGAAGTN  
NNNGGTTCTTTAAAAANAAAGNGATGGGGTCTTTTAAGGTAATTGAAATAAGGTGTTTG  
ATGGTGTTAATTGGGTGATGATGTACCTNGNGCCNGNCTGGATAAAAGC

Sequence 1136

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGATGAAGATGTGTTAAATATCTCAGCAGA  
GGAGTGATTAGATAAATGGAATTATGATATATGATATACAAACTTTTTTCTATTTAA  
AAATATATTAAATGGATCAACTTTTAAATTTGTTAGTTGCCAGTGATCTTTTTTGAAAAACA  
AAAATGGGGCATTTGTTGATTTATTTATTTCCGCTCTCTAATTAGTTACCTCAGTTTGAT  
TGAAGCCAGTGAAGTTGTGCTTTTCTCTACTTCTACTTCTCTCCCGACCTTTTTCTG  
CCCAGTGTAGGGTGATTCTTAAATTCAGACAGGGGGAGGATTCTTTCACATATNACTCA  
GCTACCTCCCAATCTGGGGGAGTTTTTCTTACAACTTGATACCAGATCCATTAATTTTAC  
ATTCTGAATAAAGGCCTAGTA

Sequence 1137

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAACCTTGGCTCACCGCAACCTCCGCCTCCCG  
GGTTGAAGCGATTCTCCTGTCTCAGCCTCCCCAGTAGCTGGGATTACAGGTGTGCACCAC  
CACGTCTCTGCTAATTTTTGTGTTTTTAGTAGAGATGGAGTTACCATGTTGGCAAGACTG  
GTCTTGAACCTCCTGACCTCAAGTGATCCATCCGCCTTGGCCTCTCAAAGTGCTGGGATTA  
CAGGCATGAGCCACCGCACCTGGCCCTGTGAGGGTTTTCTTAAACATTAGCAACTGCATTT  
TGATTCTGACAACGTGACAACATTTGGGCCAGGTAACCTTTGGTGGCTTGTGCCCTGT  
AAGATTTTAGCAGCATCCCCGGCTTCTACCCACTAGATGTCAATAACATCC

Sequence 1138

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAAACAGAACAAGTCTCAGTTTTCAGTGCAAC  
ATTTCAAAAAATATATATGCTGCAATCTAATAATTTAAAGGAATTTTACCTATTATGAAA  
CATATTACATTTTTTAAGTTAGATAATCANGTTTCAAAGGAGTATTCAGGTTATTTAAC  
TTTGTTTTTAAATGGCTGCATCAGAAAAAATGTCTATTTTTTTTTTATTTAAATATTTCA  
TCACTTGTTAAACATATTTTTGATCTGAGTTTGGTAAAGTATTATTTTACCTGCTGTT  
GCCCTGCCCGGGCGGCCGCTCAAGGG

Sequence 1139

CCCTTAGCGTGGTCGCGGCCCGAGGTACTATCTCGAATGAAGTTAAAAACAAATTAGAGGG  
AAAAGGTCAGGTTAGCATGTTTTAGAACTATTGGTAACTATAATTATGGGACATTATA  
TAATCAAAAGATTAATATTTTAAGCACTAAGTTATAAAGGGTTTACACCATGAATAAAA  
AGATTACCATCACTTACTATGAACCACCATCCATGAATCCATGTAGCTGAACACTCCTA  
ATGAAAAGTTTAATTATCCTTCAACCTGTAGTTGAAGAACTCAGTTTATGTTTATTGACA  
GATTTCCATTACAGACCCACTATATTGATGTTACTTTCTTTGACACTATATTTTATATAG  
GATATATTAAATGAAAACCTAATGCTGTTTGAAGGCTATTAATACTATTAATTTT  
TGAAAGCTTTGAGTTTTCTGAAAAGGCTTTTAAGATCAAAATTTCTGAAACACTCCACAC  
ATTCTTCTCACCCACATTTA

Sequence 1140

CCCTTAGCGTGGTCGCGGCCCGAGGTACCAGATTATGGACTCTGCTTCTGGTGTGGGTAGT  
AGGTGGAGGGTAGCCAGGAGGGCTTGGGGTGGGTATCACCTCACAATTTTGAGATGGGG  
TTTTATTTTGCAGATTATGCATTGATCACAGGCCCATTTGACACTCCTTATGAAGGGGG  
TTTCTTCTGTTTCGTGTTTCGGGTGTCCGCCGACTATCCCATCCACCCACCTCGGGTCAA  
ACTGATGACAACGGGCAATAACACAGTGAGGTTTAAACCCCACTTCTACCGCAATGGGAA  
AGTCTGCTTGAGTATTCTAGGGTAAGAGGAGACTTTTAAGTAGCCAAGTCCGGTTGTTAA  
GCAGATAATTACTCTAGGTCAGCCTTTATCAACCGGAGTCCCTCATCTGAACTACAGAAC

Table 1

ACAGAAAATGATTGAGTGA CTCTCTCAAATCTCCTTCAGGATGGTATGTGACTAGTATC  
ATTCTAGATGCANAGGGGGAGAAGTTAATTTATTACAGTGGTAACCTTTAGAAGTGGTCN  
CTTAAGANTGTGGGCCCTGAACCATCTGGGGAACTTGTAGCCAGCCNGTTTCTGGGGCC  
CTTATCTTAGACCTACAAAAAGAACTTTGGGGGTTGGGG

Sequence 1141

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTNTTTTTTTTTGACGGAGTNTGGCTC  
TCTTGGCCAGNATGGAGTGAAGTGGCACGATCTCGGCTTACTGAACCTCCACCTCCTAGG  
TTCAAGCAATTCCTCGCCTNAGNCTNCTGAGNAGTGGGGATTACAGGTGCCCCGCCACCA  
TGTCTGGCTAATTTTTGTGNTATAGTANAGACGGGGNTTTACCATGTTGGCCAAGGCTG  
GTCTTGAACCTCCTGACCTNANATGATCCACCTGCCCTGACCTCCNACAGTGTGGGATTA  
CAGGCATAGCCACCGAGCCNGACNAGGGC NNTTTTANCAAGGAAAACGTGTGGAATGAAT  
GGCTGTTGGTGTGCANANAANTNATACTGTGNTACATGTTGTGAAACCTGAANTTTNTTT  
GNTNNGATTTNGTATGANGAATGANNNNCGGACNCAANCACCCNTAAGGGGNGAAATTNC  
AGACANANTGGACGGGCGN GTTACNTATNGGGATC NNNATNTTNGGTAACAAAANNTNAGG  
CTGNANTACNTGGTGNAANGGTCATGTTACATTGTNTGNAAAGTTGGTAATCNCANTTCA  
NNATTTNTANANANCATACTANNNNNGNGGCTTGT TTTTGGNNANAGGAGGGGGGGGGGCC  
AAACCCCCCNCCCCNCCCCCN TTTTNNCCCCCCCC

Sequence 1142

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTATTAGCAACTGTGATGATGATGATTGTGAA  
TCTTATTTTCATATCTTGGGTTTTCTTACAGTGAAATATTTGTTGTGTTATTTCTTTGT  
AAAAATAAACCATGTTTGCATCTTGGTCTTCTTTCCATTTGGATTCAAAGTTNTATAGT  
GATTCCTCCTAGTAAATTCATTTTCTCCTAGGAGTACCTCGGCCGCGACCACGCTAA  
GGG

Sequence 1143

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTACACACATATATGCATATATGGTATAATG  
TATCAATATTTACAGAGACCATAGTAAACACAGCACAAAACCAGGCATTAAGAGATGCAT  
GGGAAATAGCATTTAAATGGTAAATATGGTAAAGATTGTTTTATGGTTTTTGGGTTTTTT  
TTTTTTAATGATCATATTTTAAATGTTACTTTAAATAGATTAGTGAATGTGATTCAAT  
T

Sequence 1144

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTATAAGTAGNTGGTTTTGTATGANATGGTTAA  
AAAGGCCAAAGATAAAAGGTTTCTTTTTTTTCTTTTTTCTATGAAGTTGCTGTTTATT  
TTTTTNGCCTGTTTGATGTATGTGTGAAACAATGTTGCCAACAATAAACAGGAATTTTA  
TTTTGCTG

Sequence 1145

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTTTGCTTAAACAAAGTGA CTGTTTGGCT  
TATAAACACATTGAATGCGCTTTATTGCCCATGGGATATGTGGTGTATATCCTTCCAAA  
AATTAACAAAGATAAAGTAAAAAAAAAAAAAAAAAAGTACCTGCCCCGGCGGCCGNT  
CGAAAGGG

Sequence 1146

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGGTGAAATTTGAATGTGTGAACGCATTGTT  
CTGTGGAGTTCTTTTCAAAGAGATTTCAAAGCCACAAGTTAGATAAGGCCAAGAAGTAAG  
GCCAGAGTGAGATCGAAGTAGGCCTTTCTTTTAAAAAATAATAGCTTTTATTTTATGTCA  
GTATCTTCTTTACAAATCTAACCTTCCCTTTTACGCTTTTGTAAAGATAGCTAAAATT  
CAGTGTGTTCTCTTATTATAAAGGATTGGGCTAATAGTTAAGCATTTCAAACATTTC  
GTTTCGTTAATCAGAAGCTGCAAGTGGGTTTGT TTTTATAGCCAGTTTGCTTTTAAATTTG  
GCCATGTGGGCTTTAAGTTCAACGTATTTGTGTTCTCTTATNGTTACTCTCTCCAGAAG  
TATTACCCAAACTGTGAAGTTGTGGTTATGGGGATGGCAAACATTCTATTTCGGAGG  
AGTTTTCAAGTCTNTGCGGTTGCTGTGCACTCAGAATGCCANATCCCGGGAAAGTAAGTC  
CTT

Sequence 1147

AGCGGCCGCCCGGGCAGGTACATCTGTCAAAAATCATATTTATGTGAGATGTGTCAATAC  
TANACTTGTGTNATTNATGCTACTTAGAANGANGATAAAAAATATCCTGTTTGGCTCCAA  
AAAAAGAAAAAGTCAGCCCCTCTGCAGAGTNGGAGCTGCAACCTTTTANAATTGATAA  
TCACAAACCCCTNAGACCCANAGTAAATAAAAAAAAAAGATATGTNACATTAGGCATTGA  
TGGAAAAGGACTAGATCCTAGTATAAGCATCCTAATAAAAGGAGAGGTTNAAAGACGCTC

Table 1

TCCAGAACCAGNNTTNCAGACTTTNTATGATAANCTAAATGTGCCANTCCTCGGCCNNTG  
ACCACNCTAAGGGG

Sequence 1148

CCCTTAGCGGCCGCCCGGGCAGGTACTATTGAACCAACAGGATATCTTTTTATTATTG  
CATGAGTTAATCCTACAAACAAAATTAATACCTCTTTTATAAACATCTTTCCAGTGT  
TCTAATTGATGGAGATGCGGATCACTCATCTATAAAAAATGACTTACAGCTTCAGCTAA  
TCAGTTGCTATAATGTGAAAAACAGGAATGTGTATTTTTTCAACTAGGTAAAGGTGCAT  
ATAATTTGAATTGTTAAATGTTTTATTAATGAACAAAGTAAACCTTTTAGTAATTTTTAA  
ATTACTGGTCTTAGGTGTTTGAAACAAGGTAAAGTATACATTCCAGTTTGCCCAAAAG  
TCACTTAAATATCTACAAATTATTTAATCTGTGTGTGGTAACACCATTATTGCTCCAAT  
TTCTGGAAAGAGTCTATTTTCAAAGTTTAAAAAAGAGGAAAAACAGCAAAGTGGCTAACC  
TTTGCAGTGGAAGAAAAAGTGTCTTCATGGGTACACTTTCATATTTTATGCAGCAT  
TAAGTTATCTACCGTTATGGGGGAACCTGGGGTTT

Sequence 1149

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATTGTTCTTNTTACANNTNTTACTGTCTCA  
GNTATAATTTTGAATGGCGGTTTCNCAACTNGCCTGNCCNNACCCNNNTGTNTCATAAN  
TAATCTACGTAAACAAGTTAAATAGGTAAATGNAATGTGATNAATACCTGNGGACAACC  
TGGTCATAATTTANAATCTCAAGGCTATATTAATAATACATATTTTATTATNGGGTAT  
TTTCCAATANAAATGTATTGGAGGAAAACCTTTCCANAAAAAAGNGTAACCTTTTTAAN  
AAGGNGAATNANNNTTGTCTAATTCAAAGCTTATTTAAAGGTTATGTGTAAACACGG  
TNAAGAACCNTNAAATAAAGAAAGATNTAANATAAACGTTACCAAAAAATAAAGT

Sequence 1150

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTTAA  
CAAAAAATAAGNGNAGAAGCTGGGCACAGTGGCTCATGCCTGTAATCCAGCACTTTGG  
GAGGCCAACTCAGGAGGATTGCTTTAGGCGAGGAGTTGAANACCAGCCTGGGCAACAAAA  
AACAAAAAATTACCCGGGCATGGTGATGTGTGCCTGTAGTCCCAGCTACTTGACAGGCT  
GANATGGGAGGATCCCTTGAGCCCTGGAGTTCAAGGTTGCAGTGAGCCATGATCTCCCA  
TTGCACCTCCANCCTGNATGCCAGAGCAAGACACAGTNTCAANAAAAAAGAAAAACNCA  
ANAGAGGTGGAAGGGCTCANCAAGTGCTTCCACATTGCGATTCCCTTAAATCGGGAAT  
GCTCTAAAGCTAGAGGACTTTTA

Sequence 1151

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTTTTT  
TTTTTTTTTGGAGCGGAATCTTGCTGTGCACCCAGGCTGGAGTGCAATGGTGCGGTCT  
CAGCTGACTGCAACCTCCGCCTCCTGGGTTTCGAGATTCTCCTGCCTCANCCTCCCAAGTA  
GCTGGGACTACAGGCACCCACCACACCTGGCTAATTTTTTGTATTTTATAGTAAAGA  
CGGGGTTTCACTATGTTGGCCAGGCTGGTNTCGAACTCCTGACCTCGTGATCCACCCACC  
TTGGCCTCCCAATCTTATTTGCTTTACAAGTCTGCTTCAGGGTTACCTTCCCTGACCAC  
TGCTGCCTCCCTCCCAACATTTCCAAGGGACTGTCATTGCCCTTAAGTTATTTTTCTGTT  
NAGNTTTTTTTTTTGGCGTTTTNTTTTTTTTTTNNAAACAGCGTATTAATCTNTCGCCAAAG  
GCTTGGAATCANTNGCCCAAATTAAGCNTTGTGNAGCCTTGAACCTTTCTGGGCTTA  
AGCAAATTCCTNTTACCTTNAGNAAANTNGNGACTACNGGGCCCATGCCACCACGCTTG  
GGCCTTTAAATTAATTTNTGGGTAACAAAAAATACTTAAGCCCTANGNAAANCTTTG  
GTTTAAAAATNACAAGAGGGACTTNNATNTTNCATTNATACAAATGGAAAAATTAANTT  
TCNTCNTTANNANGANAAGGAAAAAATAAAN

Sequence 1152

CCCTATCGAGCGGCCGCCCGGGCAGGTACAAGCAAGACTTTCCTTTAATATTGATAAAGA  
ATTGAGTATCATGTATGCATTCCCTTTTATGATATACAATTAATTGAAGTTATTTCCCT  
TGTATGCAACCATCCACATTTTCTTCTGACCTTTTCCTCAAGTCTTACAACACTTTTA  
ATGACTGCATTTTGGAGGTGGTCCCAGGAGAACAGATGTTTGCCTTATAATGGNGTTTTT  
CCATTTTTATCTTTGATTGNGCAAGGGGTTGGAAGTATTATTTAGTCATTATATGGATT  
CCTCTAAAAATTGTTCAATANAATATATATTCATTTATTCACCTTACTTATTGTTTATTT  
ATTGCCTTAGAGTATACCCAAACACNGGAGGATTCAATAATGATCAAGACAGGTCTAATT  
TCTGTCCCAAANGAGCTTAAATATGNGAATTAGAAAAGGAATTTT

Sequence 1153

CCCTTAGCGTGGTCGCGGCCGAGGTACTACATAGAAAGGGCTTGAAGTCTGATTCAGGA  
AAGGAAATCAGGAAAGAACAAAGGAAATGAAGGAAGAATAAAAAAGAGAGAAGTCATTG

Table 1

AAAAAGTATGAAAAAATATGAAACAGATAACAAGAAAGTAGAGGAGATTCCAAAAAATAC  
AACCCAGGTTTTCTGCCCTCATTCTATAGAGTCTTGAGAATTGTAGGGTGTAAAGAAATAA  
AGAATCAAGTCTGAGAGATCCCTTTTGCTTCTTTCTGTCTCACTGATCTGGAACCCAGG  
TTGCCAGCTGGCTATTCACAGGCCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 1154

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAACTATCACTTGTCATTTGTCTAGGAAGGT  
AAAATACAGGAAGTTCCCAACTTAAAAATGGGCTTGACGTAGCAGTCATTTGTAAGTCAC  
TTGCTTGGAATTTAGAATGCTTCTCCCTCTGCAGAGACAGCTTCCATATGGTGATTAGT  
ATCCAGTCAGCCACAGAAAGTTATTCAGTCTGTTGCTATAGATGAAATTATCCTTATTTT  
TACTTCCCCTTCGAATAGACCACCTACTGTTTCTTCTGAGTGTGGTCTTTTCTTTTCTC  
CTATTCCTCCTCAATCCTCTTTTTTTTTTTTTTTTTTCTGGGTTTCTTCATTATTTCTC  
TAATTTCTTCTGGCTCAAATACTTCAAGTTCTATTGNGGTAGCCTAGATTTAGGGACT  
AGTTTGG

Sequence 1155

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGCAGGAACAATATTCCTGTAGCCATGGAAGA  
GGGCCAAGGCTCAGTCACTCCTTGGATGGCCTCCTAAATCTCCCCGTGGCAACAGGTCCA  
GGAGAGGCCCATGGAGCAGTCTCTTCCATGGAGTAAGAAGGAAGGGAGCATGTACTTGCC  
CTTACTTTGTAGCCTTCATCAGGGTTTGTGAAGATGGCGGTATATAGGCTGAGCAAGAG  
GTGGTGAGGTTGATCGGGGTTTATCGATTACAGAACAGGCTCCTCTAGAGGGATATGAAG  
CCCCGCTCCTGCCCGGGCGGCCGCTCGAAGGGCGA

Sequence 1156

CCCTTTGAGCGGCCGCCCGGCGAGGTACGCGGGCATTTTTGTATTGCTATTAAGAAATA  
CCTGAGACTGAGTAATTTACAAAGAGTAGAGATTTAAATGGTCAAGGTTCTGCGGGCTTT  
ACAGGAAGCATGGTGCCAGCATCTGCTCAGTTTCTGGAGAGGCCTCAGGAAGCTCTTAAT  
CATGGCAGAAAGATGAAGGGGGAGCAAATTAATCACATGGTGAGAGCAGGAACAAGAGAGA  
GAAAGGAGATGTACATATACATTATGTAATTAAGCGTGATGTATGATTAAAAA  
TAATGGTATATAACAAATACAATATATACAATAAAACACCTAAACGCANAGGCTGCTTG  
TTATCCACAATANTAATACCAATAG

Sequence 1157

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGGCTCCTGCCTTTAAGAGCACTGTTTTGCTT  
TTGGGGCAGAAAGCATGGACTTTTTAAAGGGGGACTTGGCATGAATGCATTACAGAGGAGGG  
AGTGAGCAGTTGGGGGTCTGCGTGA CTGCTTTCGTGCTTAATCTACTGGTGGTCGAGCT  
GGCTGCATCACAAAGCAGAGCTAGGTTGTATAGTGGCCTTTGTCTCAAGACACTCTCCAGG  
TGGGAGAGCCTTCCATCAGGGACATACTTTAGGTTGCAAATTGACTGTTGTCTCTTGAGG  
CAATCTCCTTGTGGGAGAGAGTTTCTGCCCTGGAGCTTCAAAAGTAAGCACGTAGTTAGA  
TAAGCTTCCAGTGTANNTGAGTGTCTGGTGAAAGGGAAGGTAAAGGTTATGATTGCATTT  
TCTGAAAGAGCTAAGGTANGGAAATGGGGAACATAAAAAAAAAAAAAAAAAAANAAGTC

Sequence 1158

GAGAAGGCTTCATTAANGGAATCTCACTGNGAATATCTCCTGAGAGATGGACAATGAAAT  
ATCAGNNGGNGGATATGNGTGATAAGCTGATTTCAATATTGAAGTATNGAAATAAAATAT  
TCTTTACACCTGAAAAAAAAAAAAAAAAAAGNACCTGCCCGGGCGGCCGNCNGAAAG  
GGCGAATNCCAGCACACNNGCGGCCGGNACNAGNGGANCCGAGCTCGGNACCAAGCNNG  
G  
CGGAANCANGGCATAGCNGNCCCTGGGGGAAAANGGNAN

Sequence 1159

CCCTTTGAGCGGCCGCCCGGGCAGGTACACCAGCCTGGCGACAAGAGCGAAACTCCATC  
ACACACACAAAAAATTAATTAATAAATAAACATTGGTCAAAAATATAAAGCTGTATC  
AACTGTATATAAATAATTCAATTAATAATATCATGCATAAAATCTGGGTGTAATAAAAAACA  
AAGAATAATTTTTTTAAACCCAAAGCAAGGCAAGGGGTGATGTTACCAAACCTGCCATGT  
ATCAGAGATGTGATTAGAAGGAAATCCTTCAAGGGGAGCTTATTTATGGTACCTCGGCCG  
CGACCACGCTAAGGG

Sequence 1160

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTACAGATATGAACTACCGTGCTCCCTG  
ATACCTAAATATTTATCAAAATTTTTCACTGCTATTTTCTCATAGGATTAAAAGGGCT  
ATTTATTATTTTTATACTACAGCTGACCCTTGAACAACATAGGGGTAAAGGTGCAGA  
TCCCCCGTCAGTAAAAAAAAAAAAATCATAAAAAATTTAGATTCCCAGAAAACCTTGAC

Table 1

TATTAATAGCCTACTGTTGACCGGAAGCCTTACAAACAGTTAATACACATTTTGTATGTT  
GNATGTATTATATAATGTACCTGCCGGGCGGCCGCTCAAAGGGCGA

Sequence 1161

CCCTTAGCGTGGTCGCGGCCGAGGTACTATAAAGCTTTTGTTCACACACACTCTGAAGAA  
TCCTGTAAGCCCTGAATTAAGCAGAAAGTCTTCATGGCTTTTCTGGCTTCGGCTGCTCA  
GGGTTTCATCTGAAGATTGCAATGAAAAGAAATGCATGTTTCTGCTCTTCCCTCATTAAA  
TTGCTTTTAAATCCAAAAAAAAAAAAAAAAAAGTACCAGTCTCACATTTGGCCCAA  
ACCTCAGGATTCTCCCTCTGCCTGTCTTACTTCATGGTACCTGCCCGGGCGGCCGCTCAA  
AGGG

Sequence 1162

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACCCTATTTTACAGATGGGAAAACTGAGGCT  
CAGAGAGGTTAAATCACTTACACAAAGCCACACAATTTGAGTGAGAGCTGGAATGTGA  
ATCCAGGCAGTCTGACCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCATGTGGCAA  
AGGATGGCCAGGAGAAAGGCAGGCCAGATTCCAAATCTGGCTTGACCGTCTAAGAGGG  
TGAGTCTTAACCTCTCTGAGCCTTTGCTGTTTCATCTGTAAAGTGGTCTCTGACAGCT  
GCCTCCTAGGGTTGTTTGGAGATAAAGTGAAGTAATGGAGGGCCCTTGGGATATGGTAC  
CTGCCCGGGCGGCCGCTCAAAGGGCNAATTC

Sequence 1163

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTACCCTCTGAAATTACTAAGCAGGCTG  
TGGGTGGTGCTCTGAAACTAGGTAGAAGTCTCACCCCCAACAAACCTTTACCAGTGG  
TTTTAGCATGCAGAAGATTCTGGCCTGAACCAGTACTACTACAGAGGCTGCAAAATGAT  
GATTTTTTCATTCACTTTTNGTAAATACCCGGTATTTTTACAGGATGAATGTACCTGC  
CCGGGCGGCCGCTCGAAAGGGCGAATTCCA

Sequence 1164

ACTTTNTTTTTTTTTTTTTTTTTTTCTTCTTAGCAGGGTCTCACTCTGTACCTAGGC  
TGGAGTGCAGGCAACAGGCCAAGACCCTGTCTCCAAAAAGAAAAAGGAATAATTCTAA  
AAGACTTATATTGATTTTTTCCCAATTAACATTAACGCCTCCACCTGCCCGTGGGAA  
ATTGGGTTGGCATGTCACTGAAAGGCAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1165

CCCTTAGCGGCCGCCCGGCGCAGGTACAAACTTTCTTCAGTTCTAATTTCTAAGATGTTTC  
ACTCTTTAAGTAGAAATGAAAGTCATCTGACTGAAAATTATAGCAGTATCTAATTGTTTT  
TCATAACTAGCCAAATTCAGAAATGTCCTGGATATATTTCTGGACAATGTAGATGCTGAT  
ATCCTTGGATTTAGGTTATACTGACTTTTATCTTTACCAAACCATATTAACATTTGCATT  
TTATAATTGGAATGAGAAATTTAGAGTAAGAGATCTGGATCATGCAGGCAGGCAAGCATC  
AACCAACAATACTTTTATGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1166

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCAGTGGTTTTGCTCTATACCACTGAAAA  
GCACTATAACATAATTGTTGNCCATGATACTGAAGCTTTTCCCTCACTTNTAGGTTGTT  
TACATTACAGAGCTCTATCAATAAGANGAATACATATTACAGTGAATTCGACAACCGCACA  
AGTNGGCAGTNGGTATCCCCAACCTAATTTATCTTGGTAAATTCACCCTGTTTCCTAGTG  
CTGNTGGATAAAAGAGTGTTTACTTTTTATTGCTNTTAGACAGAGTAGNCTANATAANTT  
TTCAATTTATCAACATANCCTAGACTTCTGTAAGTGGAATGNTCATTAGTAACTCATCTT  
TTTGTTGNTATAATTGGAACACAGAAACGAGGCTTATTGCTATTGCAGAAATNCNAACT  
GGCAAAAGGCCNAGTATTTNTGGTATTCATTAATATAACCAGCTTTTGAAATTTATGTG  
TTTGGATTANTGCCTTCTGGGTACCNAAGTATTGACTCTGNTTAGTTTGGCACCTTTTC  
CGNCTTAACANAAAAATNGNAATTTGGTTAATTTCTCTTAAANATTNGGTNGNANCTAGT  
NGANNGGAGGTNATNNCTAGGAANTTTACNAAGAANNNTNGNNACTTGCCCNNGGCNNG  
CGNTTTNAAANGGGCGNNTTCCANCAAANTTGGCGGGCGTTACTAAGTGGGNTCNCNNCC  
NTCGGGACCCGAGCTTGGNCGTATTNTTGGGGAGNACCCCTCCNCCCCCNCNTTTT  
TGGAATAGAAATCCCCCCC

Sequence 1167

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTCTGTCTTCTAATTTTTAAATTTATTAATG  
TCTTCTATTTTTCTAAGGCTGATTTTTCTAATGTCTGTATTTTTCTTTTTTTCACATC  
TTGACATAAGTAGAGTTTCAATTTATTTTCAATTTATCTTGTATAATAAAATTAAGGT  
TAGGAATAATTAAGTTTTGCTCCCATGTTTTATGTGTAACAATCTCAATGTTGTATGTC  
ATCTACTTCAAAATTTCAAGCTTCCCTTTAAATACTGTTTAAAAAACTTTATGAAACC



Table 1

AGTATTTCTCTCAACCCCTTNGTGTAATACCTGGTTTTACTTTAAATGTGGTCAAGATAAT  
TTAACCTGT  
Sequence 1168  
CCCTTCGAGCGGCCCGCCCGGGCAGGTACGCAGGGATATACAAAGGTGAAAAGAAACCT  
GAAATATTTGTTGATGGCTGGAATATTTATTTTTTATGATCAAATAGATGAACTGCCTACC  
TATTGGTCAGAATGTGGAAAAATACAGAATCTGTTGGGCAGTTATGGTTGGGCCCTTCTT  
CGTTTCTACACAGAGGAATTTGATTTTAAAGAACATGTTATTAGCATCAGGAGAAAAAGT  
CTGCTTACAACTTTTAAGAAACAGTGGACCTCAAAATACATTGTTATTGAAGATCCCTTT  
GATTTGAATCATAATCTCGGAGCTGGATTATCAAGGAAAAATGACAAATTTTATAATGAA  
GCTTTTATCAATGGTAGAAGAAGTATTTGGGATTTCCTGGTCAAGGGGATTTCAAANGAC  
TACCCCTCAA  
Sequence 1169  
CCCTTAGCGTGGTCGCGGCCGAGGTACACCTGGTTTACAGAAAAACAAAGCAACTCTTAA  
ACACCAGCTGGCAAAATGATAGGGCTTTTCCTTTGAATTANTCACCACAGGTGTGAAAGA  
CAGAATGACTAATCCATCTGATTAAACATANACCTTTTAGAAATCAATAACCTTATTTAC  
ACAGATGACAACTGCTACTGTTCCAAGG / CCTAATCATGGTTCAGTTCTCAGGGCCTCA  
AGTCTTTTTCCATTCCATCNCANAGTANTACCTGCCCGGGCGGCCGCTCGAAA  
Sequence 1170  
CCCTTAGCGTGGTCGCGGCCGAGGTACCGCAGCTAGGAATAATGGAATAGGACCGCGGTT  
CTATTTGTTGGTTTTCGGAACTGAGGCCATGATTAANAGGGCGGCCGGGGTGGCTATT  
GTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTGGCCCTTCTCCACTCTCC  
ACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTANAATGCTTGGGAAATAGTCATA  
ATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTT  
TGCATATTTCTTCATTCTAAAGNTGTTCCCTGCCCGGGAGCGTTGGCTTTCGCTGTAA  
TCCCAACACTTTGGGAGGCCAGGACAGATCGCTTGAGGTCAGGAGTTCCGAGACCAGCCCA  
GCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATTATGGTGACGCCTGCCTG  
TANTCCAGCTACTCGGGANGCTGAAGCAGGAGGATCGCTTGAACCCATGAAGTGGAGAC  
TGCAGTGAAGCCGATATCGCACCANAAGNGCTCCAGCCTGGTCGACAGAGTGAAGACTCC  
NTTCTTAAGAAAAAATAAAAAATAANGTTGTTNTCTTGAAGAAAAAAA  
Sequence 1171  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGGAGGAATGTTTGGTTGGGAGAATCACAGC  
TTTACAAGGGTGTATATTTGATTTGTGTTTATTTGAGGCAGGTATTGTAATATAAA  
GGAATCCATTACCATGTCCTATAAATGACCTCTAGCCATTTTATGATTATTGTTCTCTGT  
AAAACCTCTCAAGACTTCAATGAGAAGTTTGTATAAGAATTATCTTCTCATACCTTC  
CTTGTAAGAGCGTATTCTGTTTTCTATCAGTTCGACATGAAGTCCACATCACATGCTG  
TTCTTTTCTAGTTACATGATGTGCT  
Sequence 1172  
CCCTTAGCGTGGTCGCGGCCGAGGTACCAACCCTATTTTACAGATGGGAAACTGAGGCT  
CAGAGAGGTTAAATCACTTACACAAAGCCACACAATTTTGAAGTGGCAGAGCTGGAATGTG  
AATCCAGGCAGTCTGACCTGCAGCTTATGTGCTTAACGATACTGCCTCTCATGTGGGCA  
AAGGATGGCCCAGGAGAAAGGCAGGCCAGATTCCAAATCTGGCTTGACCGTCTAAGAGG  
CTGAGNCTTAACCTCT  
Sequence 1173  
CCCTTCGAGCGGCCCGCCCGGGCAGGTACGAAGACAGCATCCTTCAATCCCGCCAGCTCA  
TGTGCATCTGAGGGTGGGGCTCTGTCTTCATGCTAGAAACCAAACTGCTCTCACAGCTTC  
CTGCTAAATCACCACGGCTAACGGATAAGCAGAGACGGACTACCCGCGTACCTCGGCCGC  
GACCACGCTAAGGG  
Sequence 1174  
CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTGCATAATAATTTTAGATAAATGTCAGG  
AACAGAATCACATTCTTAAAGGCNGAATTTCTATAAACGTGTGTATATGTTGAACAGAT  
GAGCAGCTCTGCAAAGATGTGTAACTGCATTTGAAAANGACAGTGAATAATTTGGGTT  
ACTGTAGATGTCCACAGTCTGNCTTGAATTTAGTTCTGTGACTAAAGGAGGCTTACAG  
NTGCTCCAATTTTGGTTCTGNGGGTACCTGCCCGGCAGCCGCTCAAGGGCGAATTCCA  
G  
Sequence 1175  
CCCTTAGCGTGGTCGCGGCCGAGGTACATGGTCACAACAGATGAGCAACTGATATCACTC

Table 1

ACACATGCTATTAAGAACTGTCCTGTGATAAATAACAGACAAGAAATTCAGGCATCAGAA  
AGCGGAGCCACAGGTAGAAGAGTTATGGACAGTCCAGAGCGTCCAGTTGTAAATGCCAAT  
GTCTCAGTGCCATTGATGTTTCAGAGAGGAAGTGGCTGAATCCCACAGGAAGAGTTGCCC  
GTTAAACTGTCTCAGGTGCCAGACCCTCCAGATAACATGAATCTGGCCAAGAATTTCCA  
GCACATATTTTTGAGCCAGCTGTGTTGTTAACACCAC

Sequence 1176  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCGCGGCCGTTAAACATGTGTCACTGGGCAG  
GCGGTGCCTCTAATACTGGTGATGCTAGAGGTGATGTTTTGGTAAACAGGCGGGTAAG  
ATTTGCCGAGTCCCGCGTACCAATGACTGGTTCCATGATCCCCTAAGAGAACAACACT  
TAGGAATGTGGATTCTAATGATAGCTTTATACTGCTTAGGCAAATTTACTTCTGAGCCTT  
ATGTGCCCTTCAGTGGTGAAGCAAATTTCTTTACACTTTAGAGAGGTTGATTAACGAGT  
ACCTCGGCCCGCACCACGCTAAGGGCGAATTCAGCA

Sequence 1177  
CCCTTAGCGTGGTCGCGGCCGAGGTACACTGAAGAATTAAGCTGTAATGAGGCAACACGC  
CTGCAACTTATTCTTTAATAGTTTCAGAAATTAACAATTGGGTAATTTGGGTGAAAGGT  
ATAAGGAGCTATAAATGTTATTTCTGCAACTTTTATGTAAATTTCAAGTTATTTAAATG  
AAAAGTTAAAAAGTTTAAACATAACAGAATAGAACATAACCTATTAATAAATCTGAGT  
CCAGGCATGACACAGTGGTTCATGCCTGTAATTCAGGGAGGGACTGGGAGGCCGAAGTG  
GGCAAATCACTTGAGGTCAGGA

Sequence 1178  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTAAATTGTTTTAGAAGCAAACACTACAGGACTT  
AAAAAAGGTGATTTTTTTTTTTGGCTGCAAGTAGGCACCTATTGTAATTTTTATTCATG  
CTATGAATCATGATTTTCCCTTTATTCTCCTTTGATCCTACTTAAATAAATTTATAGAG  
TATTGAATAATATAGAACCAAGATAAGAACCCTAAGAGACTTTAGATGTTTATTGTTC  
TTAGCACTCTGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1179  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNCCTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCNGTAAAAAAAACCTGCN  
TCCTTTAANGGNNNAAANNCAATTNCTGGATTAANNCCCNCGGAAAAANGNNGGGGAC  
CNTTTTGGAAAAAATAATTANGGAATTTAAAAANGGGGGGNGAAAAATTCNNTGCGGG  
NNATTNNTTNNAAAAAATACANTTTTANTTTNANCATNTTTTNNACCNNNCNACNTTTAA  
ANTTTTNAANAGGTTTTTACNCTTTTTTGTAAACAACCCCNNGNAAAAAAAANAATTT  
TTTT

Sequence 1180  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCNANCTNNTTTT  
TTTNCNTTTTAAAAAAAANTTTTTNNNAAANGGTTTTTTAAAAANTTTNNNNGGNNNGGA  
AANTTAANANNATNANNNGGNANAATTTTTTTTTTTTTTNCCTCAAAAANTTTNTTTNGG  
GGCNTTAANTTTAAAAAAAANTTTNNNNCCGGNTTTTGGNNNNGNNGGNGGGAAAAAA  
AAATTTAAAAAA

Sequence 1181  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTAGGCTTTTATAAAAATACAGCAGGGCAAG  
AGGACCAAGATGGAGGCAGTGATCAGGGAATCTCAATGAGGGTGAGACTGCGACAAAGAC  
TTGAAAAAGGTGGAGAAGCAAGCCTTGTGGGTATTTAGGGTAGCAGTAGTCCAGGCAAGG  
GGAACAACTAGTGCAAAGGCTCTAGGAGGCAATGTGTTTGAAGTGTTTTAAGAACAGTAA  
GGAGGCTAGTATGGTTAGAACAGAATGAGCAAAGGGGGCCAAAGTGGTAGAAGGTGGGGA  
TCAAAGAGGTAATGAGGCCTTTG

Sequence 1182  
CCCTTAGCGTGGTCGCGGCCGAGGTTCTAATGAAAGCCAGATAAAGGGATGGACGATCAC  
AAGGTGAAGTCCACANTAGGCTATCTGCAAGCTGAGGAGCAAGGACCANTCATCCAACC  
TCAAATAGNANAAAAANGGNNNGNAAGCCCGACAGGGCAGCCTTCAGTCTGTGGCTGAAGG  
CCCTAGAGCCCCCTGGCGAACCCTGGTGTAATCCAAGAGTCCAAAAGCTGAAGAAGTTG  
GAGTCCAATGTTTGAGGGCAGGAAGCACCCAGCACGGGAGAGAAAAGATGGGCCGGAAGACT  
CAGCCAGTCTAGCATTTNCACATTTCCCCCGCGTACCTTGCCCNNGGCCGGG

Sequence 1183  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTCTTTTGTGTATTACTTTTCACTTAGC

Table 1

ATAATGTCCTCCAGCTTCATCCATAGCAGCTTCATCCATAACTTCTGGGTGTAGCCATGG  
CAAGGGTAAACTGATATGGCACACTGGTGGGCATGTCTTCTGGAGAGGTGCTTCCAACCT  
TTCCCTGTTTTAGCTAGTCCTCAATTTGTCTGATGTCTGAACCCCACTGCCAGAGTTGAG  
TCTTGCCTGCTGAGTCATGTCCAGACTCCTACCTCAGAAGTATGAAGCATAACTGGTGTT  
ACAAACACCATCTTCAGAACA

Sequence 1184

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGAAGCTCATTCTATACCCGAAGAGCA  
GTCTCAGAAAGCAAGATTACTTTTTGTGTTTTTAAAAAATGATTCTTTAATGTAANTTTT  
CTAAACATTCTGATTGGAAGTAGTGGATTCTAAATGATTCCAAAGTCATCTGTAATTCT  
TCTGTTTTTGTTTTGTTCTGTCTTTTCTTCAATTTGGCTTTGGGTGGGGGGAGGGGCAGG  
TGACACAAAGGATTTTTTTTTTTTTTTTTTAAATTTTGAATCTTTNCCAATAACCCA  
GCTAAAGATTGCACTGAATACAACCTGTATGCCTTTTGCAT

Sequence 1185

CCCTTCGAGCGGCCGCCCGGGCAGGTACTCCTGTATTTGTTCTTATGAAATGACTATCTG  
CCTTCTCGTATCTAGTAAGATTGGCTGGCTCAACTTTCTTCTGTCAAATTATATGGTTAT  
TTTTTATATTACCACATCAGCATTATATTAAGTGTTTTAAATAGTTGAATGTATTTTG  
CCAATACTAGTATAGACTCAAATTTGCTATTTAATTTTTAAATACAATTTATTTTGTA  
AATCCTTTAAAAAATATTTGGTTAGTTTGGATTAGAAATGATTATGTTAGCCATGTGT  
TGAAGATGAAATTG

Sequence 1186

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATCCCTATCTACTATGTAAAGACAAAAAG  
GCAATGAAATGATGTAATACAATGAACCTCCTCAGAAAATAAGCTCTGTAAATCTCAGA  
CTGCCTGTTTATCATATGCTAGAGTAACTTACATTCCTTTCTTGTAGAGAAAAATGAT  
GGTAAATCCATGCATTAATCAAACTAAAAACATGAAAAGGCAAGCCAACACAAAGAGA  
AATACAGTTGGCCCTTGAACAACACAGATTTTGAACACATGGAGTCCCGTGACCTCGG  
CCGCGACCACGCTAAGGGCGAATTCAGCACACTGNCGGCCGT

Sequence 1187

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCTCAAATAACCTGTGAGTTGGGAAATTCCT  
CTCCTCTTGAGGTCCCAAGATGGCGTGGGGTTCTTGGGCCTGTCCGAAAGTGGCATTCTT  
TACTAACACAGGTCAGGAACCTGCACAGGAAGTGTGTAGACAAGGTATGAGGCCAGTT  
TTCCCAAGGAACTTTATTGGCTCCATAAGTCAAGTTTGAGTCCTTAAAGGAAAGCACAC  
CATTCCCATCAAAGTCCTGGTAAAACAAGTCTTCTAATTGTGTCTGTTGCAAAAG  
AAACAGATTCTTATTGCACTTGTGCAA

Sequence 1188

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATCTTACTTGATTATTTTATTTTCTATCC  
CACCAATCCACACCTTCACTGGAAAGTAAGTTCCATAGAGGCGGAGACTTTTGTCTATTT  
TGTTCAATGAACATCCCAAGCACCTAGAACAGTTTCTGACACATAAGAAGTATTCAATTA  
TGTGCTGGCTGAATGTATGAATTAATAAGTTGAGATTGATCACTAGTTGAAGTATAAAT  
ATATATTTTGAAGAATAAATGCTACAGTAACTGATTATGACAGCTAATTCTGTGTACC  
TCGGCCGCGACCACGCTAAGGGCG

Sequence 1189

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGGCATAGTTGAGTAGTCACCACAGGACCTA  
GCTGAAATCCTAAAAATTTTATTATCCCTTTATAGGAAAAGTTTGTTAATTCCTACAATA  
GACAACGAACTATCAGAATCTATCATACACAGCAATGGTGAACACCTATTCCAGTTGGGG  
TGTGTGTGTGTTTGTGTGTGTGTGTATGTGGTGGGT

Sequence 1190

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTGGTTTCACAGAAAACAAAGCAACCTCTTA  
AACACCAGCTCGGCAAAATGATAGGGCTTTTCCCTTCGAATTAGTCACCACAGGTGNGAA  
AGACAGAATGACTAATNCCATCTNGANTAAANATAGACCTTNNNAGAAATCAATNACNCT  
TATNTTACA

Sequence 1191

AATTGCGCCTTAGCGTGGTCGCGGCCGAGGTACTTCTACCATCTTTTGTCTACTTTCTGTG  
ACTTAAACTGCCATCTGTGATACATGAGGACTTACCTAAAATGTCTGAGAAGTACTTAC  
GCTTGATTACCAATGTTTTGGAGTTTATAAAGCTCAATCTAACAGAACATGATGATGA  
TAAAAATAATCTTAAAAAATAAAATATGATGGTATAGTAATAAAGTAAAAATAAATATGG  
TACCTGCCCCGGCGGCCGCTCGAAAGGG

Table 1

## Sequence 1192

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAACAAATCTGAAATATCTTATTAACAAG  
AAAGTAAAAATGTTATCAAAAACACTGTCTCATCAAAAAGATTGAGAAGCCAATTT  
AAAGAGTCTCACACTGGACACAAAAATAATTTGAGCTTCAAAATAAACTGCAAGGGATTA  
AAACACATAAATTTGTGTTAAATCCACAAGTTCATAATGATACTAAAAAATAATCTT  
GTTGGTTTCCTCTAGAGGCTACTAGAAAATCAGCTCATTATTTCTGATATTGGTTAAAT  
AGAAGAAAAGAAAACCAAGCAT

## Sequence 1193

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTTTTTTTTTTTTTTTTTTTTTTTTTT  
TCATNCAANAAANATAATTTTACACTTATTCTTTGAAAGANAAATCTATGGAATTTNT  
TNTTCTAATTNAATTCCAAAATACATTCTNTNANCCNTATGCCCTNATACTAGNAACTNG  
ATGGTNAGCGGGTAAGTAGGTAGTAGTANAANAACANAANGGGAATTNNGGGGAGCANAA  
AAGGGANAAA

## Sequence 1194

CCCTTAGCGTTGGTCGCTGGCCGAGGTACATATACATTATNGTAATTAAGCGTGCAT  
GTGTATGTATTAAAAATAATAGGTATATAACAAATACANTATNTACAATNNAACACCT  
AAACGCAGAGGCTGCTGTTATC

## Sequence 1195

CCCTTAGCGTGGTCGCGGCCGAGGTACATAGTGTGCGGAACTCAAATCGGCATTTAGATA  
GATCCAGTNGGTTTAAACGGCACGTTTTTGCTTATAAAAAAAGTG

## Sequence 1196

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAGGGAAGTTGCTAGGAAATANAGCAGGTAA  
TTTNTCGTTAATTATGGAAACCATNGCAACACAGTAAATATTATGTCTCTNAATTTGTCT  
TTCAGTGNTTTTTGGCATGANTGTNATGGAANAGTAAACAAAA

## Sequence 1197

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGGAAGTGTCCGGAGGAATATATAGAAAAC  
GCTAGGCTTAATTCTCAGAGGGAAGATTGGGTGTTTGGAGTGGGAAGCAAACATTTTTTA  
CTGTATACACTTGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 1198

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGCCCGCTCCCCGTCCATTCCANTTTCTCTG  
CCCTCTACTGGCCATGACGGTCATCACAGTGCCCTCCTCATTCTAACTTTTAAATACAC  
TTGAGACCCGCCTGATTAATNTTGCCTANGAAAAACAAAACAANAACAAACAAANNAACA  
AAAACAAGACACTCACATACAATGTTTTTAAATGCTTGAAAAGTACCTGCCCGGGCGGGC  
GCTCGA

## Sequence 1199

CCCTTAGCGTGGTCGCGGCCGAGGTACCACATTCTGCTCAGAAACTGCTCACTTCCTTA  
AATTGTCTTTTTTCCCCAGCGTGAAATGTATCCATTTATACTTGCTATTGCCTGTTT  
TATTAGCATCAAAAATGTGGAAGGCCTCCAACCACTTTCTNGCTGTGTCTTAGGA  
TGTGCAGNAAAAATATAGACCTAACAGNTTATGTTATAGAAATGGGTTTATTTACTTTGG  
GTGACTGTTTATAGTTTTTAAATAAAGACTGAACATTTTNTCGAAAAAAAAAAAAAAGA  
ANAAGAAAGTACCTGCCCGGGCGGCCCGCTCGAAAG

## Sequence 1200

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACAAAAAGCAAGAGAGAACAGTGGTTAAGG  
ACGCTGACTCTGGAGCCAGATTGTTTGGGTTCAAATCCTTGCTCTGTCTTACTGTGAC  
GATTTTAGGCAAAATAACCTAACCTCGCTGTGCCTCAGTTTCATCATCTATAAAATGGAAT  
TTATAATAGAACCTACATCATGAGTTGGTGTGAAGATTAAATATATTTATATCCCGGCTG  
GGTGCAGTGGCTCAACCCTGTAATCCAGCACTCTAGAAGGCCAAGACAGACAGATCACC  
TGAGGTCAGGAGTTCAAGACCAG

## Sequence 1201

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGGAAGAGTAAGTGGGGAGGGATGGGAATGGT  
TCCTTGAGACAATCTTTTACTACAGTAGATGCTTCATGGATGGGAGAGTAGGGACTGGTG  
ACTTATTTATAGCCTTCTCTTTTAAAAAAGGACCCATTTCTCTTGAATGGTGTGGTGA  
AAATTAAGAAAAAAAAAAAAAGAAAAAAAAAGTACCTCGGCCGCGACCACGC  
TAAGGG

## Sequence 1202

CCCTTAGCGTGGTCGCGGCCGAGGTGCTTTTTTTTTTTTTTTTTTTTTTCTTTTTTT



Table 1

AAGGGGGAAATGAAGGAACTTNCGCACAAGGGGCTGCCAGCTTTGTGGGGCATTCCAGA  
GAACCATGTGCTGTGAGGGCCTTCCGAGTCCATCTGTTAATCCTGTCATTGGAGACTTG  
AGAAACCAGAGCCCAGAAAGGGAAAAGTGATTGTCCCAAGATCACACAGCACTGGAGAAAG  
TGGATGAGGAGGGGCTGAAGAAGCTGATGGGCANCTGGATGAGA

Sequence 1212

CCCTTCGAGCGGCCGCCCGGGCAGGTACATACAGTTTACATTGTGGTAACAAAAGTAGGAC  
ATGCTATGAAGGCCCTTTGAATTCGCTTGACAAGATGACAGAGATCTACTAGACCCAAT  
TTTTAAATAATATTGCTGGTTTTGCTCAACATGAATTAATAATGGTGGCTAATGTGCA  
GATTTTACATTTGGAGAACTTTAATTTTCAGTATTAATTAGAATTTGTTAATATTACAA  
ATGCATTTAATGACACTTAAATTTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1213

CCCTTAGCGTGGTCGCGGCCGAGGTACCAATAAGCATACCTAGAGTTGAGATTTTGGTTT  
CTAAATGCCATTCTCCAATTAAGGAATCAAAGCACCTCAGATAAATGTTAATTCCA  
GGGCTGGGGCAGGGAAGTGAAGAGAATCACAGAACATCCTGTAATGACAGAAAAAGT  
CACAAATAATGGTGGGATTATGTCAAAGGACATGGGATTCAACTTGAAAGATCTTCCAA  
TAGCCAAATCTGAGAAAAGTTAAGCAACAAAAAATAACAAATCTTATAATCTATAGA  
AAAAATATGAATGTATA

Sequence 1214

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTANAAATNGG  
CGGCAGTTTATTAGTCACAACTGCTCACAGGGAGGGAGGTCACCACATGCCATGTGGGG  
TCACAGGANAGTTGCATTTGGGAATANAGTGAACCANAGGGGGCTGTGGAAGGCAGGCTT  
TGCAGTAACAAGAGGAAGAGGCGATTCTGGCTCCTCCAAATGTGACAGGCTTGTTTGAA  
TAATTTTCCAGGCTGGAGGGAAGTGAGCCACGTTGANACCCANGGAG

Sequence 1215

AGCGGCCGCCCGGGCAGGNACAATTAATTGTGTTCTTGACCTGATGATTTTNGAAAA  
TTTGCTTTTCTCTTTAAGAAATTTAAGTTTTCAAGGGCCGTATTAGTTATCTAAATATTT  
TGGGCTAATGTTGACTTATAATAATAAAATTTAGAAATATATTCATGATGACAATTT  
TGTTACTTACACTGCCTATTCTTTATTTCTTTTTTAGTTCAAAGGTGAAATTTTGACCTT  
TGTATTAACAAAGCCTCAAGAAAAGAGAAATCTGCCTTTTAAACATTGGTTTTCTTGCA  
AT

Sequence 1216

CCCTTAGCGTGGTCGCGGCCGAGGTACANGGAGGAANTNAGANGTAAATNNAACCAGAN  
CTGGATTACTCCGGTCTGAACTCANATCACANTAGTGACNTTAATCTGTTGAACAACTG  
AAC

Sequence 1217

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTGTGCTNTAGCCTTGGTGACAGAGCAGAGA  
CTGTCTTAAAAAACAACANAAAAAANAATTNATTAATAAATTTAAAAAATGAAA  
AAAAGCTGCATGCTTGNTTTTTGTTTTAGTTATTCTACATTGTTGCCATTATTACCAA  
TNTNGGGGAAATNCAACTTACAGACCAATNTCAGGAGTTAAATGTTACTACGAAGGCAA  
ATGAACATATGTGAATGAACCTGGTAGGCATTATTTATTGAATTNTNANCATTCCANATG  
TCCAGCACATTTTAAT

Sequence 1218

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGTTAAAAATAATCTGACTTTTCTATGATTTG  
GCTTTTCTGCCTTGAGTAACTATNTAAGATATCTAGCGTGATNTNTTNTATNTGGGCTA  
CTTTTGTAGAACAAAACANAGGTNTTANAANAACCACTTGCCACANGGNCCTTTTGAAC  
CGTTTACCTAAGTCAAGTGTAATTGAAAAACATAACCAATGCACCANGGGGTNTATTGT  
NAGATAATAAAA

Sequence 1219

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTA  
TTTGGGCCCTAACATAATCCTGCTCANAGCGACGGAAGGCAAGCCTTTTCAAACAT  
AACTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAGAAAGCATCTAGATAAATAT  
CTATCAAAATTAACTTTAANAGAAATACTCTTTTCTTAAAGCCCTTATTTTTTAAGA  
CACTANAAAATAAGTTACTATAAAAGTGGTGGTCTGGGGGCTAAAAACAAAACAAAAA  
AATCCTCTTTTCTACATTTTTTAGTTTT

Sequence 1220

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAATTATCAACTGATTTGGTCAGTTGCTTCCA

Table 1

ATGCTGGTTGATTTCCCTCATTGTGTAAACATTGACAGGTATGTGACAAATGGGGAAAAA  
AAATCCAAATAATAAAGTGACATATTGGTGTTCATAAAAAAAAAAAAAAAAAAAAAA  
NAAGTCCTTTTTTTTTTTTTTTTTTTTTTTTACTTNATAAAAAANACNGAGTTTTATTCA  
NATGTNTNTNTTTTTGNGNCCCCACCNTTTNNATGTTTGACCACCNTTACNACTNTNTCCT  
NTNATAACATTNCCATACATACTTAAAC

Sequence 1221

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGAGCCAGGCCAATCAAAGTGTCTCAGGAA  
TTAGGAATTTACACATAAAACCTGGAGAGATAGCACATGCTCTTTCTTCTTCTGGAC  
TGTGAGCTGTACCTGCCCGGGCGGCCGCTAAGGG

Sequence 1222

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTTT  
TTTTTTTTTTTTTTTTTTTNAACAAACCTGTNTTGGGNGGGTGNGGGTATAATACTA  
AGTTGANATGATATCATTACGGGGGAAGGCNCTTTGNGAANNANGCCTTATTNTNTTG  
TCCTTTCGNACTGGGCTGGAANACCTAAACTACNTGTAAATGTAAGTAGNGACCAATA  
AAAAATAAGGNTACCTTAACCTCCTTTTTCT

Sequence 1223

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGAACAATTTGTTAAGATAGATCTCACCT  
TGTGTTCTTACTGAAAAAAAAAAGAAAGAAATAGAACAGAAAAGCAATTGGATTTTAA  
TTCTGGAAACTCCTTTCTCTTCTTACATCCAGGAAATTTGCTGTTTATTTTGAAAAGCA  
AATTTAAACCTATTTAAGGGAGAGAGAGCTCTTGTAATAATTCATTTATTAGTTCTGGAC  
CAATGTTATTTATAAGCTATTATTTCAAATGATAAAAAATAATGCATAATACATTTGAT  
GATAGAACATTTTTCTTTT

Sequence 1224

GCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTCTCAAGACCTCACTTTTATC  
TGTGAAATGTGGGGAAGGTTTATAAGTAAATGAATGAGGGGTGAGGTTGTTACCATTAAAT  
GNGCCTTGAAGTNATTTGTGGATAGCTAAAAGCAATTTTGGTTTATTTGGTTTATTC  
TTTGGTTTA

Sequence 1225

CCCTTAGCGTGGTCGCGGCCGAGGTACATCATTGATGTATGTTTTGTTTTTTAACAT  
AAAAGGATTATATCCTTTTCCGCCAGCTGTTTTCACTCAATACATTGTGAAAATATTTTC  
ACATATGTTGCATGGGTTTCTATAACATTTGAAATGACTGCCAAATATTTCACTGTATGA  
TCATCATTTAATATTATTATCAATTTTGTATTTAAGTTAGAATTTTCCATTACCATA  
AACATCATTATGAATGAGCTTCTTGAAGTGTATTTAATATACTTCTTAGGATAAATG  
CTTAAAGTAATAA

Sequence 1226

CCCTTCGAGCGGCCGCCCGGGCAGGTACATATACACTATGTAATTAATAANGCGTGCA  
TGTGTATGTATTAATAAATAATGGTTATATAACAAATACAATATATACCAATAAACACC  
TAAACGCAGAGGCTGCGTGATATCCACAATAGTAATACCAATAGTATTAATGATGNTAT  
GTAAACACAAACAAAAGCAGCGGACCGTATTAATAGGCAACACACAAAAGCACACAAA  
GCAAAGCAAAAAGCCCGCCAGTAATGT

Sequence 1227

CCCTTTCAAGCGGCCGANCGGGCAGGTACCCGATATGTATGTTGAATTAAGAGGATTTT  
AAAAATTACCTTAAGTCTTTGACATNACAGCCCTGTCACTTCTTGTCANAGTTTGTA  
TGTGTTGNTAATNGGAATGTCTATTTCTTTAAAGAGCAGAGAACTACAGTTACAGGGGT  
ACAGTGTGAGGGGTGACACATTGCTGGATTCTGAGCTCAGGCAAGTCTGTCTGTCTTT  
ATTAATAGAGGTCTATCTTTCTTAATACTGAATGCAATGGACCATTCCAACCTAAGTTA  
TCTNGATATACTGGGATTACAATA

Sequence 1228

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTANANA  
CAGAGTCTCCCTGTGTTGCCAGGCTGGTCTCAAACCTCTACGCTTGAGCAATCTTCCCC  
CTTGGCCTCCCAAAGTGCTGGGATTACAAGCATGAGTCACCATGCCAGCCAATAATGAT  
TTCTTGATTGAAGGAATGAATGAATTAAGGTTTCATCTTTGGACACAAAGGCANACAAA  
AGTTTGACAAAAGGCATTTTGAAGTAGGACCTTTATTNTAATATTAGTCTAAACAGNG  
GGA

Sequence 1229

CCCTTCGAGCGGCCGCCCGGGCAGGCACAGAAAAAATCTACACCAGGTAACACTGGA

Table 1

GGATGCAGGGCTACATTTGCCACTGAAGAAACATTGTTCTCTTGCATCTGAATTCCAGTG  
CTTTCCAAATAGATGCGTAGATGATGAAAAATGGAGCAGCTTCTTTATTTCTTCTTCTT  
TCCTCCTTGAATTCTAGTACTTTGTGAAGTGTGAGGTGCCCTTCCCTAAGTCACAATTC  
ACACTGATGCATACACTATAGTGAAACACTGGCTTTAAGAAAACTGATTAACAGAAAACC  
GGCAATTGTTATTTATTTAAA

Sequence 1230

CCCTTTGAGCGGCCCCCGGGCAGGTACAGGTTCTAAAACGAAAGTATTTGGGTAGTCCA  
CTTAGTGATATTAGTGGATNGTGTAGACAATAATATTAGTCCTAGA

Sequence 1231

CCCTTTGAGCGGCCCCCGGGCAGGTACTCCATAATATAATCTTTAAATGGGCAACT  
TCTAAATATTGATCAACCATTAATAATAATGCTTATAGGGGTAAAAAGAAATNNTTGAAG  
CACTGAATTCAGTAACCTGGGTCAATGTTTCCCTAAATCCCATCAGTTTGTAAGGCAATGGATT  
TAGAATAATTCCTATNAACATGTTCCCTAAATCCCATCAGTTTGTAAGGCAATGGATT  
AAATTATTCAAATGTAGCTATTTAACCCTCAGTNACAATGCCTAGAAACCTATTTATTCA  
TCTGTAATATTAAGAAGGCTGAATTTGATTGGATCTTGAAAAATCC

Sequence 1232

NAGGGGGGCGGAAATTTGGGGGGCCCCCTTCTTAAGAATGGCCATTGGCTTCCGGAGGC  
CGGGCCCCGGCCAGGTTGGTGGATTGGGGAATTATTCCTTGCCAGGAAATTTCCGCCC  
CCTTTTAGCCCGTTGGGGTTCCGCCGGGGCCCCGAAAGGTTACCATTTTTNAAAAAAGG  
GGGGGATGGCCTTAATAACCTTTTTTNAAAAAANAGGGTTTTTAAAGAAAAATTTA  
AAAATTTTTTAAAAAAA

Sequence 1233

CCCTTTGAGCGGCGCCCGGGCAGGTACTCCATAATATAATCTTTAAATGGGCAACTTC  
TAAATATTGATNCAACCATTAATAATAATGCTTATAGGGNAAAAAGAAATTTTTGAAGCA  
CTGAATTCAGTAACCTGGGTCAATGTTTCCCTAAATCCCATCANTTTGNAAAGNCAATGGATTAA  
ATTATTCAAATGTGGCTATTTAACGGCCAGNAAACANTGCCTAGAAACCTAT

Sequence 1234

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTTTTGCNGATTGCNNNANGANTGCCCCATG  
AGGGGGGANAAAAAATNTTTTTTTTATTATNTTGGATCTAGCCTANNTCTATTTTTCT  
CACCTGCCCCAATTAGGTATTTCCANTTGCNACCGGCCTAATTCCANAATTAATTTGT  
NCCNTTTATAATTNGTTTNCNTNNANTCCAATTGAAACCCCTTTTGGGGTTATTGNNTCCN  
CNCACACTTTTTTNTTGTTTAAANNCCANTAAAAAACANTNTTNCNTCGGNTATATAAA  
ATAANACGNCCTTTTTACNTTATNGTTAATTAANCCNCAATTCCTTTTNGTTNGNCC  
AACCCACTTGAAAAANTTCCAANTAAACCTCTNCCTTCCACCANGNGANGGACCAAAANN  
AGGAAAGTAACCCCTTANTGNNAAGGNNNTGGGGGAAANNTTNGGGCCTTTTGGNGG  
TTNCCGNAANAANAAGGGGNTAAC

Sequence 1235

CCCTTCGGCCGCCCCGGGCAGGTACTCTGTAAGTCTGGAAGAACAGGTCACATTTATTAG  
ACTTCTCCCCCACAATTTTTAATCAAGCACCTCCCAGTAACAAGTTATTTAATTAGATCG  
ATTTTAAGTTGACAACAGATGTATCAGATGAGGAAAAAATTGAGCATGTGTGGTGTGATT  
ATATAATAGAATTGGTTTCTATAAACCATTTATAGTATTCAACTTTTATAGTATTACTTT  
TTCAGATGTATGGATATATAGACTATTATTTACTAACTGAGGCTCTGCGAAGTGTAGTGT  
AT

Sequence 1236

CCCTTAGCGTGGTCCGCGGCCGAGGTACTCGGATCTNTTATNNNGTNNAATAANNCTCT  
TTCGTCTACAAGCCACACTTATNCAAAATNTGTGGACAACCTCACACTNGCTATNATACC  
TGCTTANATTCTCCTANTTAGTCCCTGAGGGTTTATACCTTTTATTCTTTTATTGAAAT  
TTAACAGAGGTTTCTGTGCGGAAGCAGAGTTAAATGCCATGTTNACTCCATCATGGTTAT  
CTGAAAGTCTGAGGNGCAATTTCAAAAACTCA

Sequence 1237

CCCTTAGCGTGGTCCGCGGCCGAGGTACTTCTGACTAAACTGGAATTATGAGTGAGGAAGA  
GNGNATTACTANATAAATGACTGGGGCAANGCAAAATTGAGGAGGAAATTANAACTGTT  
TGACAANACTTTTAAAGAGCCTACTTTGAAATNACAGAAGTCTTGATNAATNTTGCAAA  
AATGGCTAGAAAATGATGGTTTAACTGGACCTATTATGCCTTTT

Sequence 1238



Table 1

CCCTTTCGAGCGGCCGCCGGCCGAGGTACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTA  
TACAAACCCGAAACTGTNTACACCCAGACTTTATTCTTCTACAACCAAATTCCTCAAACA  
CACAATCTGAACAGTAGCAGTGAAAGGGAGTTTAAGGTGGGGGTGAGGGAGAAGGGAGTA  
ATATGGTTTTTTAGTAATATAGTAATTTACA

Sequence 1239

CCCTTTGGCCGCCCGGGCAGGTACGCGGGGCGGTATGTNGGGCCAGAGCATCCGGAGGT  
A

ANANAACCTNTTTTNTNCTTAGGAGCCACTATGAGGAGGGCCCTGGGAAGAATTTGCCAT  
TTTCAGTGGAAAACAAGTTGGTCCGTTACTAGCTAAGATGTGTTTTGTACCTCGGCCCGC  
GACCACNCTAAGGGCNAATTTCCAGCACACTGGCGGCN

Sequence 1240

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGCTACCAAACCTGCATTAAAAATTTCCGT  
TGGGGCGACCTCGGAGCAGAACCCAACCTCCGAGCAGTACCATGCTATATTGGTCACTGT  
AGCTCTGTAAACATAGTTTGAAGTTGGGTAATGTGATTCTCTAGCTTTGTTAGCTCTGTT  
GTTTTCACTTAAGTATTACTTTAACTATTAGGGCTCTTTTTGGTTCCATATAAATTGTA  
AAATAAAATTTTCCAGTTCTGTGAAGAATN, CATCGGTAGTTTGATAGGAATAACATTGA  
ATCTGTACCTGCCCGGGCGGCCGCTCGAAGGGCGAATTCGAAGCAC

Sequence 1241

CCCTTTGAGCGGCCGCCCGGGCAGGTGGATCACTTGAGGAGTTACAGACCAGGACTGGTC  
AACATGGCGAAGCCCCATCTCTACTAAAAATCAAAAATTAGCTGGGCCGTGGNTGGGCG  
TGTGCCCCGGTAATTAANTNCCCNANCTTACCTTTGNGGAAAACTGAAGGGCCAGGGA  
AGAAAATTNCNGTNTTTGGNAAACCCCNCCNTAAGGGTTGGGGAAGGGATTTGGCCAAG  
GTTGGAAGTTTCAAAAAGGAATNTGGCCAACCACAAGGNTGNCCAACCTTCNCCAAAGCC  
CCCTTGGGGGNCCCAAAANNNAAGNTTGGANGTAACCTTTCCCAATTCTTTTNAATNAT  
ATTACANNATNTAGATANACNNTATAANAGNGANNNGANANTGGGNTNACCCCTTNNG  
GAGGCNCCGGNCGNNAACCCCANCCNNNCCTTAAANAGGGGGGGGGCG

Sequence 1242

CCCTTTGAGCGGCCGCCCGGGCAGGTGGATCACTTGAGGAGTTACAGACCAGACTGGTCA  
ACATGGCGAAGCCCCATCTNTACTAAAAATCAAAAATTAGCTGGGCCGTGGTGGCGTGTGC  
CCGTAGTAGTCCCAGCTACTTGGGAAGACTGAGGCAGGAGAATCGCTTGAACCCGCGAGG  
TGGAGGTTGCAGTGAGTCAAAGATTGCACCAAGTGCCTCCAGCCTGGGCAAGAATGAGAC  
TCCATCTCAAAAAAAAAAAAAAAAAAAGTCTTNGGGCCGCGACACNCTAAGGGCG  
AATTCCAACACACTGGCGGNCCGTTACTAATGGATCCCAGCTCGG

Sequence 1243

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGAATTCAGTTTCTGGGGAAAGTGAAGCNTGAA  
GGGAATCATANGAAAAATTTGATTTTTGTGTATGGTGTAAAGAAAGAGTTCCGATTTTCA  
ATCTTTTTGCCACANTGGGATTNTCCAGGCCTTTTTTCCCAACANCCATTGTTATTTT  
GGAAAAGGAAGNAACTTACTCNTNTTTCCCCGCTTTTTTGGTGGGAANTATCCTTTT  
GGGGNCAAAACCTCTTATGNTTTGGGNAAAAGAGNGCCCTTTTACCTTTTTTGNCCCT  
TTTCAACCTCTTNCAATTGGGGGTCTTTCCACCCAATTAACCAAAAGGNTTGAACCC  
CCTTNGGAAGNTTTNCANCCCTTCCCCAATTCCTTATCNCCTTGNGAATTNCCAAAAA  
AACCNTTGGTTGCTCCNGTTTCCGTTTCNTTTAAANTTTTCTCNCGGGGGNAAGTGG  
GAAACCTGGTTTTGGCNTTCCAACCTTNGNCATTTGNCCATTGGAATACCCCTCAAGN  
AAAGNAAAAGNCCCTTNGNTTTGTNNGGCCNTTNGTTGGCCCCAANG

Sequence 1244

CCCTTAGCGTGGTTCGCGGCCCGANGTACAAATAANGTCTTCCAAGGGTTTCAAGATAGAAA  
ATGATNTCTTCCAGCTTGGGGACATTTGGGAAATTGGGATTCTTTGGGGAAATGTACGTA  
ATCAGTATATTCTGGGAAAACATANTANAGAATGAATNNATAAATTNCATTGAATTNGGA  
ATATGTTGTCCATTCTCCCTGTAACATAATGCTATCAAGATANAGTAGAAATACCACATTT  
CAAAANACGTGGAGTANACAGTCTTCATAGGCTAGCTTGGAAACCTAATAGCTATTAA  
TAATGAAATTTTAATTATACTCTGGATTCTAAACAATGAACACACANTGATCTTTTTGAC  
TT

Sequence 1245

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGATGTGTCCTTTCTTATAGTCNGTCAATGCTG  
GGAAGTAACAGGCAGATGTGACTTCACTTGANCATTTGGANGAANCAAAAAGGTTGCGC  
TTGNTCGNNCCTTAGGGTTTAGATGGGCAAGGACCTTGCTTTTTGCNTCCCAATTTCTT

Table 1

AGGGTAGNTGTTNTTCTTTGNGTTGCANGGGATNNGTANACCGGTACATCCTTCTTGNGG  
GAACCAAGGGGNNNACNTTATGAANTGNAAAAGGGGANGTTCCTTTGTAGTAAANGGCCT  
TGGATTGGTTTTCAAANNGGNAAGNTGGGGTTCACCA

Sequence 1246

CCCTTAGCGTGGTCGCGGCCGAGGATACTTTTTTTTTTTTTTTTTTTGNCTAATTACTA  
CCTTNTATTCTAATTGTGAACCATGGCCCTGAAAGCTTGATAANCAAGACTTGGCTGAAN  
CCAGAAGGGGNAACTAAGTGNGGTTCCGGCCAAGNAAAAGGGATTANTTGGGGATGNGAAA  
ANTCAANTGGNCTTNTCCCTT

Sequence 1247

CCCTTGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTATTTTTTANATGA  
AAAANCTGTAATTCTTTATTTGAAACAANTGCNTTCAAAAGAANTNAAAACACTTCAAGG  
ACTTCTAGTAAACATAAAAGGTCNAACAAACTGTGGCAAAAANTTTGCAATTNGTANAT  
AAGCTAANATAGGGGTAAACNAGTACCCCAGGCCANAATTAAGNGGNATNNCNTCAANT  
ACTTCCANTCANNNAAGGG

Sequence 1248

CCCTTTCGAGCGGCCGCCCGGGCAGGTNCTATCCCTATGAGGCATAATTATAACAAGCTC  
CATCTGCCTACGACAAACAGACCTAAAAATCGCTCATTGCATACTCTTTCAATCAAGCCA  
CAATAGGCCCTTNGGNTAGTTAACCAGCCATTTCTTCATTCCAAAACCCCNCCCTGNAA  
AGCATTNNAACTCGGGNNGCCANNTTCAATNTCTTACAATNAAATCCGCCNCCCAACCGG  
GGCCTTTTAACAATTNCCCTNCCAATATTACCTTAATTTNCTTGGGCCCTTAGGCCAAAT  
AANCNTGCAAAAACCTTAACGGNAAACCGGGCAACCTTCCANCCCAAGGNTGCGGCCAAT  
TTCNATTAATAATTNCCCTNCTTCTACCAANAGGGGA

Sequence 1249

CCCTTAGCGTGGTCGCGGCCGAGGTACTATATGTTGCTCTCTCAGTGCGCAACAATGAAGT  
TTTTGCAATTCTAGAACTTGGATTTTTTTTTTAACAAAAGTCCCAAAACACCAAAATGT  
AAACAAGATANNGAGATTAAATTGNAGTGGNNGTAATTTAATTAAGTTATATTTTGGG  
TTAATTTTTAACAAGTGAAGTCTTATTGTTGAACTTATTTTTCA

Sequence 1250

CTNTACATGCATGCTCCAGCGGCCCATGTGATGGATATCTGCANAATTCCCCTTAGCG  
TGGTCNGCGGCCGANGTACTTAGGTGCCTACAACATAAACAGCA

Sequence 1251

CCTGTAGATGCATGCTCGAGCGGCCNGCCAGTGTGATGGATATCTGCAAGAATTCGCCCT  
TCGAGCGGCCGCCCGGGCAGGTACGCGGGCAACAGTTAAATCAACAAAAGTCTCGCCAG  
AACACTACGAGCCACAGCTTAAACTCAAAGGACCTGGCGGGTGCTTCATATCCCTCTAG  
AGGAGCCTGTTCTGTAATCAATAAACCCCGATCAACCTCACCACCTCTTGCTCAGCCTAT  
ATACCGCCATCTTCAGCAAACCTGATGAAGGCTACAAAGTAAGCGCAAGTACCTNGGCC  
GCGACCACGCTAAGGG

Sequence 1252

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTATTATTATTTCAAATTTAAAAACTTCTTC  
TTTTTAAAGAGATAGGGTATCACTATGTTGCCAGGCTGATCTTGAACCTTGGCCTCAG  
ATGATCCTCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCCTCTTATTTGCTTTACAA  
GTCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCCAGCATTTGCCAGGG  
ACTGTCAATTGCCTTAGTTTATTTTTCTGTTTTGTTTTTTTTGTCTTTTTGTTTTT  
TTTGAGACAGGTTCTTAGTCTGTGCGCAAGGCTGNGAGTTGCAGTTGGCCGCAATC

Sequence 1253

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTACTT  
TANTAGAGATGGGGTTTTACCATGTTGGCCAGGCTGGTCTTGAACCTNTGACCTCAGGTG  
ATCCACACGCTTCANCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCAGC  
CTAAATATTTNTTATAGCAATGCAAGGATGGCCTAACACACTGCCTAAATCAAAATTGC  
TATTCACCTCAAGGTATTTCAATTACCTGACTAGCTTTTTTGGGTGCATNTGGAACATA  
ATGTA

Sequence 1254

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTCTTTTATCTTGGGATAAAATGGCTAGAT  
GAGTATGGACAGGGAGGCAGGGCAGATACAGTCCCTTGCTTCTGGTTTTAAGAGTTCTTCT  
GAACCACAATCAACTTCTCCAAACACCCACCTTTGTCTTCTACCACAATAGGGGTGAGAT  
CTATTGCTGACTTTTCTCCACCTTCTCTACATCAGCAGCACCTAGGGGAAGAAATGTTA

Table 1

TTGAGACTATACCTAAAGGAAGAACATTCTCCTCTGTTGCACACTATTATCCAATTGGAT  
AGACCCACATCTAAATGTCTGCAATTACAGTAATGTCACTGGGCATTGGTGGCTCATGC  
CTGTAATCCANC

Sequence 1255

GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTANAATAACAAAAATTTTTACTNAAACATAAANATTN  
CAGANGTTCCNNACAANCCNTNCAAAATGGTCACAANCTTTTTTNA

Sequence 1256

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTAGNT  
TTCCTTTTAATGAGCTCACCTTTAACACAAAAAAGCAGGGGTGATGTATTTAAAAA  
AGGAAGTGGAAATAAAAAATCTCAAAGCTATTTGAGTTCTCGTCTGTCCCTANCANTCT  
TTCTTCANCTCACTTGGCTCTCTANATCCACTGTGGTTGGCAGTNTGACCAGAATCATGG  
AATTTGCTANAACCTGNNGAAGCTTNTACTCCTGCAAGTAAGCANANATCGCACTGCCTCA  
ATAACTTGGTTATTTGAGCCNCGTNTTTTTGCAAAACTACTTTTTCTANTTTTTCAAN  
AATTTACTTTCAATNGTTTTTAAAAAA

Sequence 1257

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNGGGTT  
TCAAACCTCAGTTTGAAAATGAGAGGAAAAACAAAATAAATGATTTACATAATCAAAGGA  
TTAACTGATACAGACTTTTATTCTAAATGCTCACAAGCACAGAAACCAACAAGAAATCAG  
ATCTTGAACGAATTTATAATGATTCTTCCAGGAAGCACCGNNGGCAGCCACATAAGCCGCT  
NTTCACACCTGGCTGCNTTCTGCCAAGTTTAGTCCTCAAAGAGAAAAACAAGGGAGGNAA  
AAGACCNAAAAAACAACAAA

Sequence 1258

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGCTGGTTAATACTAAGATTTGCCTTT  
ATTGGTTAGGTATCTTTTTTTTATTTTAGCACCTGATAGCTGCTTTCTACTGAGTAAA  
GAATTATACTTTTAGATGTCACAGAAATAGAGTATTTATTGTCAA

Sequence 1259

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTCAACAATTCAAAAGTTTTGACTGAAAT  
AAGCAAACTCACTAATGATTATGAAGTGAACATAACCAACAGGCTGTTTGGAGAAAAAC  
ATACCTCTTCCTTCAAGTAAGTTTGCCATGCCTACCATACTGTGAGTGGTATTCTGGAA  
TGGCCAAATGGCCCTGGTAGGACTATGGGTCTGAAGTCGTGCTGCCTGGCTCTGGCCAC  
ATCCCTGTGGTGCTTTTCCATCCTGATCTACAGATATTCAGAACTGCAGGGAGTTCCTTT  
TAGTCCTGGCAATCTGAACCTGATTTTTTGC

Sequence 1260

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGGTGGGATTGTTAGACCATCCCCAAAAGGA  
AGTGACCTTGGAGTCTGTGGAGCTCTCAAGAATATCTCTTTTGGACGTGACCAGGATAA  
CAAGATTGCCGTAAAAAAGTGTGATGGTGTGCCTGCCCTTGTGCGATTGCTTCGAAAGGC  
TCGTGATATGGACCTTACTGAAGTTATTACCGGTGAGTTCTAGGCCTAAGGAAAATTGCT  
AAGTCAGTGTTACTCTCTAGTGATGTTGAGAAGTGAAGGGATTTCAGACCTTTTACTTT  
TTGATGAAAGGTTGTGAAGTGGTGGCTGTGGGTCAAATCCATCTCACAGNATTTGTTT  
TGGATC

Sequence 1261

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTGCC  
TCCTCTGACTATATTTCAAATAGTCTGTCTTCAAGGTCAGNAATCTTTTCTCTGGCA  
TGATCAACTCTGCTNTTAAAGGACTCTGATGCATTCTTCAGTATGTGAAGTGTCTTTTC  
AGCTCCANAATTTCTGCTTCATTCTTTAAATCAATCTCTGTTAAATGTATNTGGTAA  
ATTCTGAATTCCTTCTCTTTGTTATCTTGAATTTCTCTGGAGTTTCTCACTTATTTTG  
AATCTGTCTTGAAAGGTCACAATCNCTGTTTTCTTAAGGGATTGGGGCCCTGGGTAAC  
TTATTTTAAAA

Sequence 1262

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCCATCAAGCCTGGTTCCTAGGATGCTGGAC  
TTCTAGCTTAGTGAGAAATGCAGTATACTTTTGAAAACTTCGTGCAGGAATCCCTCAAT  
GCTGTAAGTGAAGTGGGTGAGTCAAGTTCAAACGACTTTTCCTTGAGGGAGTATTTAA  
TCGGACAAGGGAAGTCTTTTCTTTTGGGCAATGGCCAACAGGACTGAGAAGCCAGAGAG  
CTTGCACCTGAGCCATCTCAGCCGTGAGAGTAACAGTCCTAGGAAAATAGATGGGGGCTG  
GGGGTAAGGAAAT

Table 1

## Sequence 1263

CCCTTAGCGTGGTCGCGGCCGAGGTA CTCTTTTTTTTTTTTTTTTTTTTAGGGGTT  
TTCTTTGTAGAGACAGGGTCTCACTGTATTGCGCCAGGCTGGTCTTGAAC TCATGGGCTC  
AAGTGATCCTCCTGCGCTGGGCTCATGAAGTGCTGGGATTACAGGTGTGAGTCACCATGA  
CTGACCTATATTTAATTTTTAAAGATTAGACTGGTGTTAGCTGTAAATAGTTTGAATA  
CCTCTCTGATAGGTGCTAGCTTATCGTTACTCTTAGTGCTTCTTGCATTTCAT

## Sequence 1264

CCCTTTCGAGCGGCCGCCGCGGCGG CAGGTA CTCTTGTGTTTAAGAGAAATTCCTAAACTGGAT  
ATATGTGGCAGGCTGAAAGCACTGTGAGTTGAAGTCAAGGGGAGAGGTCCAGGCGCAGTG  
GCTCATGCCTGTAATCCCAGCGCTTTGGGAGGCCAGGCGGGAGGGTTGCTTGAGGCCAG  
AAGTTTGAGACCAACTTGGGCAACATAGCAAGACCTCGTCTCTACAAAAGATCNNNAANT  
NAATANTAATNTAAATTAAGTTTCCTTTGGGCCGNNACCACNCTAAAGGGCGNAANTTC  
CAGCCACCACTGGCCGGC

## Sequence 1265

CCCTTTCGAGCGGCCGCCGCGGCGG CAGGTACCTTATTGTTAAAGTGAGTCAGATAAATCTTC  
AATTCCTGGCTATTTGGGCAATTGAATCATCATGGACTGTATAATGCAATCAGATTATTT  
TGTTTCTAGACATCCTTGAATTACACCAAGAACATGAAATTTAGTTGTGGTTAAATTA  
TTATTTATTTTCATGCATTTCATTTTATTTCCCTTAAGGTCTGGATGAGACTTCTTTGGGGA  
GCCTCTAAAAAAATTTTCACTGGGGGCCACGTGGGGTCATTAGAAGCCAGAAGCTCTN  
CTCCAGGGCTCCTTCCCAAGTGCCTANAAGGGTGCTTNTAGGGAAACATTAGGATTCCCA  
GCCAGGGGGCT

## Sequence 1266

CCCTTAGCGGCCGCCGCGGCGG CAGGTA CTCAACTGATTTGAGAAGAAAAGTGATTTGC  
TTACCTGTGATTTTGAGACCTATATAGTGAAGGTTTGTGCGCACTTTTTAGTTTCCTCAA  
ACATGCAGAAGTAATGAGGTTTGACAGAGACATGAGACTATAAGATGTCTGTCTATTGCTG  
CCAACCATGGAAAAGATGTTAAGATGTCCAGCTGCCCATAAAATCATATTTTCAAAGTGT  
GAGACACGAAGAATATCTTTCTCTTATTTGGAAATATGCTGAAGGATAGGAATAAAGAAA  
AGGATTNCAGTAAAATGGGAGNC

## Sequence 1267

CCCTTAGCGTGGTCGCGGCCGAGGTA CTTATTTTTTTTTTTTTTTTTTTTGGNTTCTGTAA  
ACTNTNATTTTACACTTATGGGCCACTTGCCAACTCAGGGGNCCTTGGCTTCTTGACTCA  
TTTTCTACAAAGGTTTACTTTGGTTGTAAAAGATGTAGTTAANAGGGGTANGAANAATTT  
NNGGAATNTATTTNCTTGGCTTNGGTNAAAAACCTCAACAAGTTTACCTTTNNCCAG  
TTCCCAATTAAATATTAAANAANTTNGGNCAACCGTTTTGTACCNTCNCCTTTTCNAGG  
AAAAAAATTCCTTATTTGGNACCTTNTTCTTGGNAAATTTTTNANTAAAANAANAANTG  
GGGCCATTTTTNTTTTT

## Sequence 1268

CCCTTTCGAGCGGCCGCCGCGGCGG CAGGTACGCGGGGGGCTTTGCAGATGTGATTAAGCAAA  
GGACCCAGATGGGGAGATTATTTGAATTACCTAGGTGGGACTCCACGTCATCACAAAG  
GTCAGAATCCAAAGAGATGTGAGAATGAAAAGCACAAAGTGAGAGCAGTGGGATAGCCAAA  
TTTTAAGAGGGTTGTGAGCCAGAGAATATAGGCCGCTNTAGAAGCTGCAGAAGGCCGGG  
GTGGACAGAGTCTCCCTGCGAACCTCCAGAAGCAGCACAAACCCTGCCCACTCACGGTAGA  
CTCTCGATCTCCGGGCTGTAGAAATAATACATCTGTGCTATTTTAAG

## Sequence 1269

CCCTTAGCGTGGTCGCGGCCGAGGTA CATTAAAAGGTGATGCTAATACTTTAAATGTT  
TAAGANATAAGATTTAAAAGCATTGTGAAATTGTATACTTGCANANGTCCGTNCTACAT  
TGGCATTTTGGAACAAGGNACATTAATTGGTT

## Sequence 1270

CCCTTAGCGTGGTCGCGGCCGAGGTA CTGCAAGCAACAGTTACTGCGACGTGAGCAGCAA  
CAGAAGTATNCTCTCCTGAAATTATTANGCAGTACTTGNATCAACCACTCCGCCGTTACC  
CATACCAAAGCCGTGCGCTTGGNCACCG

## Sequence 1271

CCCTTAGCGTGGTCGCGGCCGAGGTA CAATTTTTAGTCAAGGGATTGTTTGATACTCTTT  
AAGTTCACTGCCAGGCCTACCACCTATCTCTGTCCAGGAGGAGAGTTCCTTGTAATGAG  
AGGTTTTTAAGACGTCTTTGTTCTGGGATGAATCATAGGGAATGACTGCCTTTGGAGCT  
CAGGATATTAAC TGAGTGGTGCAAAATTNCCAGGATCAATTCGACATGCCATGTGT



Table 1

ATTTAATAAGATTTGAGCATAGATATTAACTTAGCATGGACAGAGAACTTATTTNTTG  
GGGGACTGGCATAAGTGAAAGAACAGAATCAGTNTGACCAGAGAGAGCATAAAAACTTT  
Sequence 1281  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCTCTGACTTTCTAACAAATTACCATAAAGGA  
AGAATATTTTTTCGTCTACTATTGTTAGAACACCTTAGAACCATCAAAAATATAATTACAT  
GGCTAATAGAAAAAAGAGCAGTTTTAAATATGTTTTATGTAACTATTTTCATTGTT  
TTTCATTTTGTGTTGCCGAATAGTAGTTGTTCTAAGTAAATACAGGTCTCAATTTCACT  
ATGAATAAAAAAAAAAAAAANGAAAAAAAAAAAAAGTACCTTGGCCGCCGACCACGCTAA  
GGG

Sequence 1282  
CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTTCTTATTTCTTAATCAATACAGCTAAAG  
GTTTGTCAATATTGTTGATCTTTTTAAAGAACTAAAATTTTGTGTTGATTTCCTTTA  
TTTTTTTTTCTGTTTTATTTATCACCCTCTTATTTTAGTATTTCTTCTCTGTTA  
GCTTTGGGTTTAGTTTGTCTTAAGTTCTTAGGTGTAAAGTTACGCTGTTGAAATGAGA  
TCTTCTTATTTAATGTATGCATTTATAGCTCTAAATTTTCTCTTAGCACTGGTTTCACTG  
CATGCTCTAAGTTTTGATA

Sequence 1283  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTA  
ATTAAAAANCNGGANTTGGTNGGTTNCCCAAGCTNGNNTTGAANNCTGGGNTTAAACAA  
NNANNCTNGTTGGCCNNCCAAANNCTNGGATTANNNGNNTGAACCANCNNACCCANNT  
TTTAAAAANCNNAATNTTTTTNNGGNAANNNTNANANANCNNNCCCAAGGANTTAAANGGGN  
GGGAAAAACNTGGANNTTGGNTTTTTTTTT

Sequence 1284  
CCCTTAGCGTGGTCGCGGCCGAGGTACTCACAATAACAAGACAAATTTGACCTGTTCAA  
TAAATAGAAATGAAGTGGCTAAAAATGTTTAAATGGAAGTGGAAACAGTCGCTCTCTTT  
GTACTTGGTCTCTACCTCAGATAATTCTTCTTTGAGCTTTTGAGTAGCTTCTCCTTTTTTC  
ACTTAGTTCTACATGTATTCTATGCAGTGAGGTTTTCAGATGCAGACAATCTTGACTGAAG  
CTGTTGACAATCTAGGTCTTTTTGATGAAGGGTGCCTGAATATTCTTTTTACTCACAGA  
TTCTTCATTATGTTTCTCT

Sequence 1285  
CCCTTANNTTGGTCGCGGCCCGAGGTACTTTTTAATCTTATTATTAACTAACCCCTGTG  
GTGGTGTGGCTACATTCTTTGAGTTTAGAAAACGAGATAAAGAATTGCTCATATCTTCCC  
AAATTGTGTAGTATAAAAAGATGCTGTCTGTTGTTTTGTAGAATATGGAAGTCCC  
TGCAGTAAGTAGGCAACATGCTACCTTCTATTCAACACAGCACTAGAACAAGGCAAGTG  
GGACCTTTGTGCACACATGATTGATTCTTAAAGTCATTGGCTCTGGAGAACTCTGAGAC  
ACCTNCATCCACACCCACAGCTCANGTTAAGCTGCAAAAGTTACACATCTTCTCTAGGCC  
ATACACCCACGTAGCATCTTCTCTAATGGTACCTGCCCGGGCGGCCCGCTCGAAAGG

Sequence 1286  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACACAGGATGTGATCAACAAAGTTCTATTTTAC  
AGGAGTATGATCCTGTGATACCTTGCCGTAGGTTATGTAACATGATTGGAGCGCAACCA  
GCTGTTCTCTTGCACAGATCGAGAGTGAGGGGTATTTTGACATTACACAGCATCAGGA  
GCCTGGTGCCTCATCAGGTGTAAGTTCTTATAACCACTCTTGGCAAATTTATTAAGACA  
GGAACACAGTCAATCTGTAATCATAAGTAGCTCTACGTTTACTTGAATTCACAATCCCT  
AACCCATCTGTCCCTGGCAGAAAGAAAGATGACATGCATGGACAGTGAACAGAAAG  
GGATGAAAGCCAGGATTCCTGGGATGAACAGACAGTGGCAATTAGGATGTGAAGACAGGT  
CACAACCTATTACTATGTCTAAAAACGACCAGAGCAGAGAGCCAGAAGAGAATAAGCCTG  
AAGTCACCTTCCACTNAAAAAGCAGCCAAACTCCCTCAAAGGAGTAACTTTTAAACCTG  
GATCTAACCTGGAANGGGCTAAAAANTGGCTTGGTTCTGAGTTTTTTTT

Sequence 1287  
CCCTTAGCGTGGTCGCGGCCGAGGTACATTCCAGTTCTTTATCTGAATACAAGCGTTTTG  
CTTTTATTTCCAGTTTCTTGACCAGAACAAATAAAATACATAAGACATCGTTTCTATAG  
GTCATATACTATAGAATAAAGAATTGTTATGTAAATTATTAATGAGTATACAGACCT  
TTACATAAAAACTAAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

Sequence 1288  
CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGTGCAGACCGCCTACCTCATCCTGTGACTT  
AGAATGCCTAACCTCCTGGGAATACAGACCAGTAGGTCTCAGCCTTATTTTACCCAGCCC

Table 1

TTGCTACATTCAAGAAGGAATCACTCTGGTTCTAATGCCTCCGACAGAATGGTCAGATTC  
TCAGACTCTAAAGCAAAGAAGACTATGTTCACTGACAGCAAGACTGTTGAAGAAAAATAA  
ACTCGAATGGCCTTGAGGAGCTATTATCAATAAAAAACAGTATAACTTATAATTATCTGTT  
GTGTTACAATGAAGTATATCATCACTGC

Sequence 1289

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTAAGGTTGTTAGCCCTCTGCTGGAAGAGAGT  
GTATTAGTCCATTTTCACACTGCTGATAAAGACATACCCGAGACTGGGTAATTGAGAAAA  
AGAGGTTTAATGGACTCATAGTTCATGTGGCTGGGGAGGCCTCACAATCATGGTGGAAG  
GTGAAAGGCACATCTTACATGTTGGCAGGCAAGAGAGAAATGAGAGCCAAGCAAAAGGGG  
AAACCCCTTATGAAATCATCAGATCTCGTTAGACTTATCCACTACCACAAGAACAGTGTG  
GGGGAAGCACCTCCATGATTCA

Sequence 1290

CCCTTTGAGCGGCCGCCCGGGCAGGTACATAGGCTCTGCCTATCTCTGTGGCATGGATCC  
TACATCCACAACCTACACATTATTTATTTATTTTTCGAAATCCCAATCCCCAGAA  
ATGGTCCTCACCTCATTGACATATGCAGGAAGAGCCAAGGGGAAACAGCAACTTGGAAA  
TGACTATGACAGACTAACACAAGGACAAGAAATGGCTCTCATGGGATGTAGGTGGAAGG  
AGAGGCCTCTGGCATTGGCAGCTCCCTACCAGAGGTGTCCTGCCCTCTGTTCTCTTGGG  
TAAGGGAGCCACTGGGCAGGAGTAGGCA

Sequence 1291

CCCTTTGAGCGGCCGCCCGGGCAGGTACATAAGCTCTGCCTATCTNTGNGGNATGGATCC  
TCATCCACAACCTACACATTNTTTATTTATTTTNTGCAATCCCAATCCCCAAAN  
ATGGGCCTCACCTCATTGACATATNC

Sequence 1292

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTTTCTCTTTTTTTTTTTTTTTTTTTA  
ATTCTGAGATTTCCCAAGCTGTGGATTCTTCTACTCCTTAANAAAAAACTTTGGTTT  
TATTTAACATCTACACCTTTTNGTCAGTTGTGTAGCGTGTTCACCCCATTTTATTA  
TACTCTTAAAAAGATGTAATTGTTGTCATTTTGAACAGTTAAACATNTTNGGTATAAAA  
AGAACCCCAATGGTTTTAGTTATNGCTTTGTAATTTTTATTTTTANTTTTACCTAAAN  
AACTTTCACTAATCAAATAAGGGAAAGAACTGTCTTT

Sequence 1293

CCCTTAGCGTGGTCGCGGCCGAGGTACTACCTGTTTAAGGACATACCAGAAAAAAGTAT  
TGATTTTTATCCTATGCTAAACAGTGCTGTGATAACTTTTGTATCACTTGGAGAATGCTC  
CTGAAATTATGCAACACTACTAGATAACCCCTGGATCAAAGAGGAAATCAAAAGGGAAAT  
TTCACACTGTATTGTAAGAGAGGAGACTTTTATGCCAAAATACAGTAAGTCTTTTAGTC  
AGATAAAATTAATAATCTTAAATTCATTTCATGTTAAAGAAGAAAGACAATTAAGAAATC  
TGACACTAATCAGAAGAAATTAGGAAAACGAATAAGTAAAAGAATCTGAAAAGGAGAAAT  
AAAA

Sequence 1294

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGGAGAGTGAGGTGGGAGAAGAAGAGTGTC  
TGGTTTTGTGTGCTNACATGTCTTCTTGGCATGAGAATGTTAATTTGGAANTAGTGGGN  
CNCTCAGAGCCNTCCTACAAAGGCAGTGGCAAAGCTTCNTTACCGTGACATTTGTTNAGT  
ANTAACTTTGCCTNNGGCACGCGNCTCCTGNAAANTGTNTTGTGTTGGGCCTATTTCT  
TGCTGAGNTNCCCTTTANNGGNTGTNCTTCGNNTTTTTCATTCNANCTAATTTNGCC  
TCCCATATNGAACANATTGGTAATTTCAACNATGGGNGNGNCCAACNTTGGCTTTTTT  
CTTTTTTNGGACTATGNCCCCCTAANTAACNACCCTTGGGATNCAANTTNGTNAANTT  
TTCTTTTCTTTTCTTNNNGGNGGGGNGCCTTNCCTTNNCAANNNGGAAACCCCCAAAA  
ATTTTNTTTTTNGGCCNANCCNTCCAANCAAATTTTTT

Sequence 1295

CCCTTCGAGCGGCCGCCCGGGCAGGTACNGCGGGCTCTCTCCATGGGTCTGTGTTCCAGA  
AAGCTATGACTCTTTAATGCATCTCTTAGTTTTTCTTATTTCTTTATTCTTAGTATC  
ACAGTCCATGATATCCACTGTCCTTGGGGCGCCCAATTCATTGTGCAAAAGCATTTAA  
TCAAAATACCCCTATTTGTTATNTTTTTAAAAAGTAAAGTGGGGGATG

Sequence 1296

CCCTTCGAGCGGCCGCCCGGGCANGTACAATGCACATGCCGAANGACCTTANTNTTGA  
TGTGATGAAATGTTTTCTATGCCTGGAATAAATGCCTTNCCTTTGGGNTGTAATATCTTAA  
ATACGTATTGCTCCTCNATCTGTGAGTTATTTAATTTTTTCTCTGAAGNAGCTNTGATT

Table 1

TCTGGGCTTTCTAGTGTGATCATCTA

Sequence 1297

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGCATTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA

Sequence 1298

CCCTTCGGCCGCCCGGGCAGGTACGCGGGCTTCCTACTTCCACCAACCCCTCTTNGCAGA  
GACTGCTCCATTCCATTAAAAGGNGAAGGTTCAACTGGANACCTNCAAAGTTGGCTGGGC  
CT

Sequence 1299

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAACGTGATGAAAAATATGCCAGACCTGGCCG  
GGCCTGGTGGCTCAACGCCTGTAATCCCTGCACCTTTGGGAGGCCGAGGCAGGTGGATCAC  
GAGATCAGGAGATTGAGACCATCCCGGCTAACACAGTGAAACCCCTGTCTCTACTAAAAAT  
ACAGAAAAANAANAAAAAAGAAAAANGGTCCTTTGTNTACTGCAGTTGTCTNTACT  
ATGGCATTGGACAGGACATAATTGTAAACATAAAAAAGTGCAATTGGTTACACTTACATN  
TGATAGTGAATTGGCAAACGTGACCAATTTTTT

Sequence 1300

CCCTTCGAGCGGCCGCCCGGGCAGGTACATACAAAAAATCATTAACATATATTTCAA  
GAGTAGGAAATGGGAACCTGGTGTTAAAACTCTTATAACATATGTCACTGNCTTAAGGGAC  
AGTGTTTTAAAAACGCATACCTCGGCCGGGCGCGGTNGGCTTCATGCCTGTAATCC

Sequence 1301

CCCTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TNTAAGATATAGATTTAAAAAGCATTNNGAAATTGTATACTGCAGTGTCTGTCTACATGGC  
ATTGGACAGGACATAA

Sequence 1302

CCCTTAGCGGCCGCCCGGGCAGGTAGGGCGCGCAGCAGCACTCGCCAAAGTCGTGGGA  
G

ATGCGGCAGGCAAGGCACAGAGGAGCAAAAGTGCCGCACAGACAGACAGGCATGTCGTTG  
CAGCAGTCCGTGAGACCTGTGTGCCAGTCACTGAGCTGGGTCTGGTAGCAGCTGGTGGTG  
GCGCACTGGGGCTGACTGGTCACAGGGTAGGACATAGCTTTGCCTTTCACGTTGTCGTGC  
ATCTCAAAGTGCATCTTGCTGGCCCTGAGGAGGTGGCGTTGGGGACGGCAGAAGTGGCCT  
GTGGCAACAGTGGCAGNAGTCTTGTCGAAGGGGAC

Sequence 1303

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAAAAAACAAAACATGGAGTATGTCCTGTTG  
GTAGAAAAATTTGAGCAACAAAATAAATAAGTAGTATAGGATTATGACCCCAAGTATAA  
ATAAACCATCTATGAGTCCATACATATATAAATAAATGATTGAATAAATATATAACGGA  
GAAGAAAAAAGACTATCCATAGCAGAAGAATTCCAAATAATTTATAGACAGCTCCCT  
TTAAGAAAACAGACCTACTGAGTGTGGTCTACAATTAATGCTCGCGTACCTGCCCGGGCG  
GCCGCTCGAAAGGGCCGAATTCCAGCACACTGGCG

Sequence 1304

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTGATTAAGCCAAACTTCAGCAAAAAGGAAG  
TGCTGCATTGNAGCAGTATTGAAAGTTATGTAGGTGGATTTTTAAAAAATATTACAGCC  
TAAATTTTCTTAGCAAAAGTCAAATGAGTAACAACACACAGTTTGGAACATTTGNAGAG  
GAGAAAACAAATATCTGACAAGAGTACCTGCCCGGGCGGCCGCTCNAAGGGCGAAT

Sequence 1305

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGAAACTGGACATTATAACATTAATTTT  
ATTAGCTCTCTGGGAGTGAGCTACATGATGTTGTGCACTGAAAATTACCCAAATGTTCTC  
GCCTTCTCTTCTGGATGAGCTTCAGAAGGAGTTCATTACTACTTATAACATGATGAAG  
ACAAATACTGCTGTCAGACCATACTGTTTCATTGAATTTGATAACTTCATTACAGAGGACC  
AAGCAGCGATATAATAATCCCAGGTCTCTTTCAACAAAGATAAATCTTTCTGACATGCAG  
ACGGAATCAAGCTGAGGCCTCCTTATCAAATTTCCATGTGCGAACTGGGGTCAGCCAA  
GGAGTCACATCAGCATTTTCTGTTGACTGTAAAGGTGCTGGTAAGATTTCTTCTGCTCAC  
CAGCGACTGGAACCAGCAACTCTGTCAGGGATTGNAGGATTTATCCTTAATCTTTATGT  
GGAGCTCTGAAATTTAATTCGAGGCTTTCATGCCTATANAAGGCTTCTGCCAANTGATG  
NGAATGATTTTAATTACCTCATTGGCATTTTTTCTTGGGAACAAGCAGCCCTGGCCTT  
ACCCAGGGTANGTTTTCTTTCATTTTTNAAAGAAACACCTTACCATTATTGNTTNCCTC



Table 1

AAGGGATTAAGTCTAAACAATTGGGCCTTTTTAAATAANTTATTTAAAAACCCCCAAAA  
AAA

## Sequence 1306

CCCTTAGCGTGGTCGCGGCCGAGGTACACCAAGTGGAGGACACGAATTCTATACCTGTAGG  
ACAGTGCATGGAGAAAAACCTAATGCCGGCTGTCCCTCAGAAAGCCTGGGGCCAGTGCCT  
GGGCTGTACCTCATCCATGCTATCAGTCTACTTTCCCTCTTAGCCACAGAAAGCCCTGA  
AGAAAGTGGCATAAAAATGACCTGGCTGGGCACAGTGGCTCATGCCCATATCCCGGCAC  
TTTGGGAGGCCGAGGTGGGCAGATCACCTGAGGTCAGGAGTTCAAGACCAGTCTGGCCAA  
CATGATGAAACCCGGTCTCTACTAAAAATACAAAAATTAGCCGGGCATGATGGTGGGCGC  
CTGTAACCCAGCTACTCANGAAAAGTGAGGCANGANAATCTTCTGAACCCAGGANACG  
GAAGTTTGCAANTGAGCTGAGATCGCATCATTGGACTTCCAACCTTCAAGCGAGAACCAG  
CGGTTNGAATTTCCCTTTTGTATGAACTGGTCTTTTTAATGTTCTTTAACCCATTCTTC  
TTTTCAAATTGGTTCTATTGGGTTTTTTTTTCTTTTTTGGANGTTGGGACTTTTTT  
AATCTACCTTGG

## Sequence 1307

CCCTTAGCGTGGTCGCGGCCGAGGTACCC ITGTTACAAATATACCATCATCATCAGGTCT  
GAATGGGTTTCTCTACCCCGACACCACCTGATATGCTAAATCCAAGTTCTGGATCCTT  
TTCAACCCCTCACTCGAATCTCTTGTGTTTGCCAGTTCATGGCCTTGTCTAGGAGAACATG  
GGGCTGTGTATATGGAGACTGGTGGGCCACTTTCAGCATCAAGTAATCAATTAGTTGTTT  
TCTAGAGGGATGCCTTGCCACAGATGCCTGAGGGGGGTGATGTATTTGACTATAATTTG  
CTGAGGCCTGAGAGGCTGGCCCATCTGTCCATTACTCAAAGGCATCTAAGAAAAACATGA  
AGTATCTTAAATGACCAATAATAATGTCTTATTTCAAATATTTGGATTTCTTCTTGGAG  
CATTACAAAAGCACTAGAGTTTTACATTCTAATTAAGTCAAACAATACCATGCCACTTA  
CTATTTTTCTATAATTTTAAACTTAAAGAAATAAGCTATTATGGCTTAATTCTAAAG  
TTCTGAGTGCTTGGTGGTACACTCACTTTTTTAAGCTT

## Sequence 1308

TTTTTCGCCCTTNTTNTGGNCGCGGCCGAGGTACTTTGTGNTTTTTTTTTTTTTTTTG  
GGNCACAGGANTCCTGACTGGGAAAACCTGAGCTACAAAAGCAAGATTTTACTGAAATT  
AATTATTTACAGACAGACTGGANATCACAGGTCACTGAAAAGTCATTTCACTGAACAGA  
GCTAAGGATCTAGGATAAATTGTAATAACAGCAAAGGGAAATTTTTTAAAGAGAGCAA  
AACTCAAAGTCAAAACATCACATACTTTATGCCCTTTGGAAAAGAAATAATAAAATAGA  
AATTGCCNCCATCAAATTATAATACTATTTCTGAATTCAGGGAAAAGACAGGNGNAAT  
TAAAGGGAATTAATTAAATATATCAAATNTCTACCCTATTATNAACATACCAAGAAAATG  
AAACAAAAAATTAATTAAAAACAAATTNTTTGGGCTCCACCCGAAAAAGAAAATNCCTCC  
AGGNGGCACACACACCACNNCACCCACACCACGGCCACAACAAAAAAC

## Sequence 1309

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTNTCTTCTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAANAACCNNANCCNTTTTTT  
TTTTNACCNAAGGGGTTNNNCTNANTAANNACNACCCNTTTNAAANNACNNNTTNAAAA  
NNNTTNTTANAAAAANNATTNNACCCCNNTNTNAAAAA

## Sequence 1310

CCCTTTTCAGCGGCCNCCCNGGCAGGNACAAACCCTNGTAGGNTAATCCANCTCTAATTG  
ANNNGGGAGCNNACCTTCTGCTTCTTTAATCCAGATCNGAGGCCAAGGG

## Sequence 1311

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAACTAAAATTATGGGAGAAGAACTATGA  
GTGAAACGATGAGAAAAACCTAATGCATGATGTAGAAGTGAAGTGGTGAATAGCAGAGC  
ACTGGAGGGAAGGGCCACAAAACCTTCAACCCCAAGGTCTAGAATCATTCTAGAATCATC  
CTACAAGCCTAGTTTTCATGAGATTGAGCCCTATTTTATTTCTTGCTCTTGGAAATTATAT  
GAAATTACGAATTTCTGTGTGTTGTCAGCTGTAATAGAATCCCTGGAATTTTATTTACTT  
TTAATTTTGTATTTATTTATTTATACTTATGTGCCATCTTCTCATGAAAAAGAGGCAGTATG  
TTAAAAGTTTGAGTTGAGATTTTCTGATGTAGATAAATAAGCTAAAGAGGGCAGGGTGAA  
GTGTGATATATGAGAAATTCAGAGCAGGGTATTCGTAACCTGTAAGTATTTAGTCCAAG  
TTCCCTCTCCCAACACATTTTACACTAGAATAAGATTGAAAGGCCAGATGTGGTGGCTCA  
CGCCTGAAATCCTTTTGGGAGG

## Sequence 1312

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC

Table 1

AGTAAGCCAAGATTGTGCCACTGCACTCCAGCCTGGTGACAGAGCGAGACTCTGTCTAAA  
AAAAATAAATAAATAATAGAGGTGAATGTCTGCATTAGGATCAAGACAAGAAGAAGACAG  
ACAATCACTTTGGAATTCTGAGACTACCTCCAAGAATCATCCACGGAAGGATGTCAGCCA  
TTTAACCAGGGCTACGGATCAAAAAGGAAAAAATACAGTCAGTGGACAAGTAGAAGAGTC  
TCCTGAAAAATATCCGTATTTGAAAAGGCAGCAGGAGTTGATAGAAAACATAACTAAAAA  
AGTAGAAGACACTGTTAAATTTGAATCTGGATCCTATATAGCTTCTTCTCTGGGATCTAC  
TGAGGAGTGAATCTAAATGAAGATTTAGCTTAGAAAGCATGAAGATAGTATGTTCCAA  
TTTAAATAAAAAATTATATTGTCTGAAAGACAATACAATTTTAGTACCTCGGCCGCGACCA  
CGCTAAGGG

Sequence 1313

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGNTNNTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAANGGCAATTTA  
ANAAAAAATNNAAATTTGACNGGNNAATACCAAANGGAAAGTGNNTGANCCNCNAAAA  
AAAAAAGGTTTTACNTTTTTCNAAATTTANNTNTTTTTANAAAAAANAAGTTTTAAAN  
TTNNGANTTTTAAACCNCTTTTNAACTGNAAAAATTTTTNAAANANCTTTACCCGAAN  
TTAATATAANCNAAAAATTTNNTTTTTTAAANTAATAATTANCNACCCNAATTTAAN

Sequence 1314

CGCCCCGNCAGGTACCTNCTTAGAAACCTAGACTCCANAGAACACTGTTTGACAACCACT  
GCAGTAGAACATAATATATCAAGATTNTAGGAGTGGGTTTCTTTTTTCATTTTTACATGT  
TNTAGATAACATGCATAATCAAAGCTAATAACTGTGTTTTCTTTACTTTTTATTG  
CCTCTAAAGACATCCACNCATAGNGGTGAAGTATTTTTAATGCGTTTTAAATAAAGGC  
ATTGAAAAATATTAATAATTGNAGTTACTAAAAGTATTTCTCTTTGCGATTCTCTNATCT  
GTGTTTCCAGACCGGTTGGGAGGGGTGACAGATCAGAAGGCTCTGGTCAAGAGAATGAAA  
ATGAGGATGAGGAATAATAAACTCTTTTTGGCANGCACTTAATGTTCTGAAATTTGTAT  
AAGACATTTATTATTTTTTTCTTTACAGAGCTTTANTGCAATTTTAAGGTTATGGTTT  
TTTGGGAGTTTTTCCCTTTTTTTTTTGGGATAACCTAACATTGGGTTTTGGAATGATTGGG  
TNCCATGAAATTTGGGGAGATTGGTATTAACAANAACCTAGCAAAAATGGTTTTTAAAA  
CTTTTTTGCCCGTGATTGAAGGAAGTGCTANNAAAATGCNAAAAGTGCCAATATTTTTTC  
CCTA

Sequence 1315

CCCTTTGCGGCCCGCCCGGGCAGGTACATTTGGTGGAGTTTGAGACCAGCCTGGGCAACA  
CAGTGAGACCCTGTCTCTAAAAGCATTAAAGCATTATCCTCGCATTTGATAGGGCTAT  
GTAGCTTTTAAGTAAGCAATGTTAGAATGAGTTGTAGAGTTTTATTTTGTGAATATAGT  
GAGTGACAGATGGCAATTACATGAGGATATTTGAACGAAGGTACCTCGGCCGCGACACG  
CTAAGGG

Sequence 1316

CCCTTAGCGTGGTCGCGGCCCGAGGTACCAAAGACACTTATTATTCTAACATGCATCAAG  
TAAAGTAAAAACAAGGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGT  
AAGGTAGTGGACAGCTGTGTGGCTCTGGGGATGAGACAGACTAGACCAGGCAAGTGCTTC  
AGGCAGGTGCCCCGTCGGGAGGCCTCTGGAGTTACTCATCTTGACGCCTCGGGCTACTCA  
CCATCAGGGAGCCCCGCGTACCTGCCCCGGCGGCCGAAGGG

Sequence 1317

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTNNCANGTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTACNCTGAGTCAAAAAATNTTTAATAGTTNCAAAAT  
TTTTTTTTTTTTTTTTTTTACAAAATCANTTTAAANANCNNGGNGATTTNNCCNTAATT  
ATCAAAATNTTTNTTCTTGGGGTNTTGGCTAAGGGGGGCTNAAATAAAAAAAGGCCCT  
NGANTNTTGGNTCAAAAATNTNNTAAAAANCCCCCTNTTGANNNTTGACATGCTTAC  
CCCTTATGAAAANNCCCCTCNNTTAAAAAAA

Sequence 1318

CCCTTAGCGGCCCGCCCGGGCNGGTACTACTTTTGTTTTTTTTTTTTTTGGATCAATAAG  
TNTATTTATGTTGNATCACACAATAGTTACACAAGCATTTAAAAACACATGCNCACNTGT  
TTATTATACCATACATACAAACACACATACAACCTTAATATTTACAAGCACATACAAGCAC  
ATACAAACATATAAACAACAACAACACTAATTNAACATACATACAATACTTACAGCTTA  
CGTTT

Sequence 1319

CCCTTAGCGTGGTCGCGGCCGANGTACATGAAAACATCAGTGTGACAGTTAATATTAAT

Table 1

GTCAACTTGATTGGATTGAAGGCTGTAAAGTCTTGTCTGGGTGTGTCAGTGAGGGCGT  
TGCTAGAGAAGACTAACATTTGANTCAGTGGACTGGGAGAGGAAGACCCACCCTCAATAT  
GGGTGGGCACCATCCACTCAGCTGCCAGCGAGGCTGGAACAAAACAGGAGGAAAAAGGTG  
GGATAGGTGACTTGCTGAGTCTTCAGCTTTCATCTTCTCCCCTGCTGGATGCCTCCTG  
CCCTTGACATCAGACGCCAGGTTCTTTGGCCTTTGGACTCTCAGACTTACACCANCGGT  
TGCCGAGGGCTCTTGGGCCTTTGGCCACAGACTGAAGGCTCTACAGTGTGGCTTCCCTA  
CTTTTGAGGCCTTTGGACTCGGACTGGGCCACTACTAGCTTCTTNCCTCANCTTGCA  
GGTGGCCTATAATGGGCCTTCACCTTGTAACATGTGANCCAATTCTNCTTAACAAACGC  
CCCTTCATACATACATATCCTATTAGTTCTGGCCCTCTGGAGAACCCTAATACACTCG  
ATAAAATTTCAATTAATAATTTTAAATA

Sequence 1320

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT

Sequence 1321

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTT  
TT  
TTAAAAAANT

AAA

Sequence 1322

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGCTTCTTCCTATTAAGTGCCTAACTATAG  
GCAAACTTTGGTGTTCCTACTAAACACAAGAGCCTCACACAATTAGGAAAAAAAATCA  
AAAGAAACAAGGAACTGAGAATGGAAGTTAGTGTAATCTCTGCATTTGGGGAGTTGTC  
ATTAAGTCCAGAGCCCAGCATAGTTCCATGGAGCCCTGAAGGGAGGGACCTCCTGCCA  
CAAAGAGTTTCGTTCCAGACGAGTCGTAGCAGTGGGTGTAAACAGCATTGGGGAAGAAGT  
CAATGTCTGAAAAGTAATTCCTCCAGGTTTCATCATGATTCTACGGGAAGAGAAAGAGAC  
TACAATTAGCACCTCTAGCCATGGGGCAGGAAAAGGGGGAGGAAGGGACAGGAATGCTTT  
CTGGTCTCCTTAAGGGAACAGGGTTCTACAGGTACCTGCCCCGGCGGNCGCTCGAAAGGG  
CGA

Sequence 1323

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTTTAAAAAANAAAAAANNNAANTNAANGGGNGNNAAAAAANTT  
TTNAAAAAAANTTTNCCAATTNNGGTTTTTAAGGGAAAAAANAAAAAANNNNA  
ATTNCCCNNAANTTTNACCCCCCCCCNTTNNAAAAAANAAAAAANTTTTTTNAAAAA

Sequence 1324

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGTTTAGTTATGGCTGTTTTTGCCTCTAAC  
ACTTTTATTTTAAAAAGAAAATTAATAGGTTATTGGGATCAAAGATATAGGCTTTTTG  
TTACTTTGAATGATTTTGTAAATCAGAATATGCATTGTTATTTAGTTCTTATTTTA  
TAATTATTGGTAGAGTTCATCTAATTACCTATAAATCCCTGGAGAAAGGTGGCCCCCAT  
TACTTTTATTTCTTGGTTATATGTATAAAATCAGTAGGCAATGTAAAAATGTTTTGTG  
TGAATTTATGTGAGTTATAATTCTAATTCTATGTCAATATTCACCTCAGATTACCACATG  
AAAGCTCAGTCACCAACTATGCCTCATACTGAAATACCCACTGATTAATCAAGTTGACA  
ACCAGCTCCTATCGTACCTGCCCCGGCGGCCGCTAAGGG

Sequence 1325

AAGCAGGCATGGCATATAANCAAGCTTTTTTAAAGGCTGAGTGAAGTTATGTGGCTGATAG  
AGGAAGGATAGGAGGAAAGGAAATATAGTGAAGGGAACAGAGAGGAATAATAAGCTGG  
CAAGTCACAGACANCATAATTAGACTATCAAAAGAANATTTGGAAGAAAGGCATGGACAG  
GAATAAGACCTNCTTCTAAAGCAAGGTAGGGAGAGCAACTNNATGTAGATTGAANAGAA  
AAAGGAAAGAAAAATG

Sequence 1326

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATATTTATTTACAAAACACTTCATTA  
TTTATAAAGAATTTACTAACAGTTTATCTTATTTATACCCATACATCTGCTACTTTGGGA  
GGCCCTTTACATAGAAAACAGCATTCTTTTGCCAAATATGACCAAATTACTTTATTTA

Table 1

TAATTTTGTATTTATGTTTCAGCTAGATCTAAAAAGCATCTGAAGGAATTTACAATGAAA  
GATACCTATGCAATAACATTTAGGATAATCTTTGACATTTTGAAAAATAAGAAATGAGG  
AAAAAAGTGATCTTTCAAGTAGATGCAAAGCATTATAATGACTGACACTTGTATCTAAC  
TCCAGTCTTACAGATAACTAAGGCAAAAAGCTAAATAACAATATGTAACCTCTAACATT  
TGGTAAAAGGAAGTATACTGGTCTGTTAGCAGAGACAAACTTTTTTTAGAATTGAAGTCT  
GAAACAAACAAAAG

## Sequence 1327

GCCGANGTACANGCCGNGGAAGAGACTCAAGTAGGAGCGCCTGCCCGAGCTGANACTAGA  
TGTGAACCTTTACCATGAAAATGTTAAAAGATATAAAGGAAGGAGTTAAACAATATGGA  
TCCAACCCCCCTATATAANAACATTATTACATTCCATTGCTCATGGAAATAGACTTACT  
CCTTATGACTGGGAAATTTTGCCCAAATCTTCCCTTTCATCCTCTCAGTATCTACAGTTT  
AAAACCTGGTGGATTGATGGAGTACCTGCCCG

## Sequence 1328

ATCTCCACCGCGNGGCGGCCGCCCGGGCAGGTACCGGAAATCTGCAGATCGCCAAGTAA  
TTCCTATAATGATGCCCTCCTCACGTTTGTCTGGAACTGGTTGTGAACCTCCGAAGAGG  
CTTCCGGAAGGAAGACATAAATNCCCAACGAGGAGGGACATNGGANCTCCACGACNTNNC  
TCCTATTACTCGGCACCCCTGCAAGCTCTCTTCATCTGGGCCATTCTTCAGAATAAGAA  
GGAACCTCTCAAAGTCATTTTGGGAGCAGACCAGGGGCTGCACTTCTGGCAAGCCCCTGG  
GAAGCCAGCAAGCTTCTGAAAGACTCTGGCCAAAAGTTGAAGAACCAGACATCAATGCTTG  
CTGGGGGGGAGGTCCCGAGGAAGCCTGGCCTAATGAGTACCCTCGGGCCGGCTCTAAGAAA  
CTANGTGGGAATCCCCCGGGGCTGGCAGGAAATTTGATNATTCAAAGCTTTATCGNAT  
ACCCCGNCCGACCTTCGGAGGGGGGGGGGCCCGGGTACCCAAGNCTTTTTGTTCCCTT  
TTAGTTGAAGGGGGNTAAATTGGCGCCGNCCTTGGG

## Sequence 1329

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGAAGGTTTGGGATTACAGCATCACTTCCAGA  
GATGTAACAATAGGTGGCTCANCTCCAATCTATGTGAAAAACATTCTCCCCCGGGGGGCG  
GCCATTACAGGATGGCCGACTTAAGGCAGGAGACAGACTTATAGAGGTAAATGGAGTANAT  
TTAGTGGGCAAATCCCAAGAGGAAGTTGTTTCGCTGTTGAGAANCACCAAGATGGAAGGA  
ACTGTGAGCCTTCTGGTCTTTCCGCCAGGAAGACGCCCTCCACCCAAGGGAAGTGAAGCA  
GAAGATGAGGATATTGTTCTTACACCTGATGGCACCAGGGAATTTCTGACATTTGAAGTC  
CCACTTAATGATTACAGGATCTGCAGGCCTTGGTGTCAAGTGTCAAAGGTAACCCGGTCAA  
AAAGAAGAACCACGCAGATTTGGGAATCTTTGTCAAGTCCATTATTAATGGAGGGGGCA  
GCATTCTAAAGATGGAAGGCTTCG

## Sequence 1330

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCGTGTGTTTGTAGTTGACTAACACTGACCTG  
TAATGGTCCCTACACCCTCTCCACTTACTTACACTATCTTAGGTAAATAAGACTTTTATTC  
CTAAGTGTGAATTTTACAGGAGGAGAAATCTGGCAGATAGATCCTCACCATCATCTGAA  
CACTCGAACTGGACTTCTTTTCTGAATTGACCAGTCAAAGAGAAAGGAAAAGAAAAAA  
ATATGACCCGGTTGAATTTAGAGTATCAAAGCATGGAGTATAGAATAATTTTGTGTTTAA  
AAGAGGAGCTATTAAGTTGAATGGAAGGAAAAAGTTCTGGAAATGCGTTCATGTAAGG  
ATAGTAATCCCG

## Sequence 1331

TATCTGCAGAATTCGCCCTTAGCGTGGNCGCGGCCGAGGTACTGTTTGCATTAATAAAT  
TAAAGCTCCATAGGGTCTTCTCGTCTTGCTGTGTCATGCCCGCCTCTTACGGGCAGGTC  
AATTCAGTGGTTAAAAGTAAGAGACAGCTGAACCCCCCGGTACCACTGTAATCATTATT  
CCCAATGTTATGATTACATTGACAGATAACTCCAGTTTTGCTAACCTGAACTGATGTTAT  
GGCCATAATATGTTGTTGATTGATGCGCAAANGGTGATGTGTGAGTTATGATCCTGTTTTT  
CTCAAAATGGTGGTGGAGGCCGGGAGCTTATATGTTTATTTATGTATGAATGANGATAGC  
AAGAGATGGCATATAATCACCAGACTGATCATATTGGATTCTTTG

## Sequence 1332

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGGATTTTTGCAAGCCCTCTATTTAAATTC  
CCCAGAAATTAATAAGGAGGCTTTGGAGGGAGGAATGCCCTANACAAATTGTGGAGTGG  
GTTTGTTTTGTTTATGGAGATGGTCTTTAAAGTCTAAATTGTCCCGTTTTATTTTGGC  
CAATTGAAGAGGGGCTGAACTCAGCTGGGAGGGAGGGGATGGTTGTCAAGCCTACAGCTT  
TTAGTTGAAACCAAGTCCATTCTGGGGCCAAGAAGCTTCCATTTTATAGCAAAGAGAGAAA  
GGGGAATAATACANACTCGTACCTCGGNCGNACCACGCTAAGGGGCGAATNCCAGCA

Table 1

CA

Sequence 1333

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTAATTCATTCTACTTTGTGTTAACTATCTT  
TTTATGTGTAGGTCTCATCACCCCAACCAGACTATAAATTCCTTTGTCATTATTTAAATC  
CATGCATGGAACCTCCCATAGACATCAACCAATCACCAATAGACAAGCCTTAGAACATGTA  
TTACAGGAAAAATAGAGTAACACATACAACCTAATACAGAGGAAGAACANTTGACATTAAA  
ATAGAANAANAATTAACACTCTTTGGANTCTATAAANAATGNAAACAGAAAGAAAGAT  
NGAAGGATAATNCGTNAACCTAGAATATTCATTTGCCTGCTTCAACATTCAATAATTTAA

Sequence 1334

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGTTCAACAAAGTTTGTCTTGATTAAAAAA  
AAAAAGAAATGAATATCTAATGTATAAACTCCAACCTAGATTTCCTTTGTCATT  
CATTCACATTTGTGCTTCTTTCTACACAGCTGTCATTTACATTCTAGGCTTGATTTC  
CTATGTAAAATGGGAATTTAATCTTTATAAATGAGGCATTTATGTAAAAAATTTTATTT  
AAGTACCTGCCCGGCCGCGCTCGAAAGGGCGAATTCAGCACACTGGCG

Sequence 1335

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAATAAACAGCCAAAGAAAAATAACCAGTTAG  
CACTTAAATAAGAATCTACCATGTAAAAACACAGTATGGGACACTACAAGGTAGTATTT  
ATATATTTTTTAAATGACTGAGCTACAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1336

CCCTTAGCGGCCCGCCCGGGCAGGTACATCTATCTGACCCAGAGTTACCTTTTCTATCA  
TGCCCCCGTAGGATATTGCCTGGGGACACCTGACAACAGAAAGTCTAAGGTTTTCTATCA  
GGATTGGGAGTTACCCCAACACCAGCAGGATGCAGGAAAAAGTAAGTACCGGATGGTTG  
CCTCAATCTGTTGATTCTTCAGTGAGTTAGCTCAGATTTTGTCCAGGAACAGCTTTTCTAGA  
GCCAAAGATTACCGTATTGAACCTTACCAAGGCATCTGGTGACTAGAAAACCTCTGGAAG  
GTGGTCATAGCAGAAATTTGTTGGGAAAGTTCTCAGCATAATAAAGAGAAATTTTTATTT  
CCTTCATTGATCCACTCTACAGGGAAAAATAAATGGCANATGAACCCATGTATGTCANA  
CTCTGNAATAAACATCAGTGAGATCACAGTGTGAGNAAATTTTACGCTGAATTTAA

Sequence 1337

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTCAAACCTT  
ATAAATAAAAAAGTGGTATGCCAGTAAAGTTTCAATTTACATTTCTCTTCTGAATGAACT  
GAGCATTTTCCATTTTCTCTANATTCTTAGGAAGCCTTTGTATCTGCGATATAAGTTA  
CTTTCTCCTTCTTTGTCTGTTGTTAACTTTGCATTTCTTTTAAACCTGCAGTAAA  
TTTTAAATCTTTTCATTGAGTCTTCTGGTTTTCAAATCACATACAGAAAGAAATCTCCCG  
AGTCANAGGGTGTGACCACAGACTGTTCTGGTGCTTCTATGGCTTCATCTTTTACATTT  
GAATCTCTGACGTAGTTGGAATTTATTCTGGNCTATAAGGANCCGACTTTATTTTAAGAA  
CAAAATTTTTTNAACAAATGGTAACTTAACTCCTAAAGGCAGATTNT

Sequence 1338

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTGGTAAAAGATTTTAAGAAGGCATGGGAAT  
ATGAATTTCTCACCTAAGTTTAGAGGGTTAAAGGATTGTGTTAAGTGAGGAAGGAAAAA  
TCTAAAGGTTTAAACAAGTTGTGAAAGGTTTATAAAAAATTAATGTGTGCAAACATATCN  
GGCTAAAGTTAAAGAGGTATTATTCTGTTTTCCATAAATTGAACATTGGAATAAAGTG  
CAACAGAGTTTTCTAAATCATTGNTCTGCTCTTTAACAAAAAANATTGTAAANGGTT  
ATAAAAGGNTTATAANAATCTTACC

Sequence 1339

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTAAAAATTTCCACTATCAGAAGATCCTGATT  
AAAAATAAGAAATACATAAACTCAAACAGTAAGTCAATGTGATTATTTGTTTCATTTCA  
GAAGATCTATGGGTCCCACTGCCCGCCACACGTAGTCTCTGGGTTCTCAACGAAGTGTG  
ACCAGCTCTTCTGAAGAGGTAGGGTGAATGGCGACTGTGTTGTCA

Sequence 1340

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGT  
TTGTTGTGACTTTATCTACCTAGAGTAAATTTGGCAATTTGCATTTTCTCAAAATAGT  
TTTTGAATTTATTGTGTAAATTTGCTCAAAATAGTCAATTTAAACAAATTTCTGTTTTA  
CTATTTCCCCCTTGTCAATTTAAATTTTGTATTTGTGCTTCTCCCGGTACCTGCCCGG  
GCGGCCGCTCGAAAGGG

Sequence 1341

Table 1

CCCTTTCGAGCGGCCGCCGGGCAGGTAAGTCTTTGACTATTTTTAGCAACAAATTACTTTT  
GACACACAGCACAATTGATTTAACACTTCCAATTTTGGAAGTATTGGATAAAATATGATG  
GGATTTAAATAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGTAGTCTCTT  
AGTAAAACTATTGTGACACTTCTCTTTCTCCAAATATTGGCCTGGAAAGACCTAA  
TACAATGCAGGGATTGAATCAAATTCACACATTTTTTTCTACGGAAACAACAACCTTT  
CTTGCTTATATTTAACAAAACTAGTATAGATT

Sequence 1342

GGTCCGTGGTGCGGGATCGAGATTGCGGGCTATGGCCGCCGAAGGTTTTTCGTCACTACT  
GGGATATCCCCGATGGCACCATTGCCACCGCAAAGCCTACAGCACCACCAGTATTGCCA  
GCGTCGTGGCCTGACCGNCGCTGCCTACAGAGTCACACTCAATCCTCCGGGCACCTTCC  
TTGAAGGAGTGGCTAAGGTTGGACAATACAGTTCACTGCAGCTGCTGTGNGGCCCGTG  
TTTGGCCTCACCACCTGCATCAGCGCCCATGTCCCGGAGAAGGCCGACGCCCCCTGAAC  
TACTTCTNGGTGGCTGCTCCNGANGCCTGACTCTTGAACACGCACGCACAACTACCN  
GGATTGGCGCCCGACGNCCTGCGTTGTACTTTGGCATATCGGGNCTTCTGGTCAAGAATG  
GNCNCGNTTGGAGGGGCTGNNAGGGTGTGTTGNAACCAACCAATGTTNAGCCCTTGTG  
CCTTGCCGGGGACCTTTCAGCCCTGCAATAATGCGTCCCAGAAATAAATNNTGTGGTCT  
TGGTGTNNGAAAAA

Sequence 1343

CGCCCCGCGTCCGAATGCAGTGAAAGTGACACTGCCTGACCTTCAAGACTAGATCATCAA  
AGGTGCTACAGCTTCTGCTTTGGCTTACCCTCTCTGTCGTGGGACACTCACCCTTGGACC  
CAATCTCCACACTGTGAGAACTTCTATGCTACCTGGAGAGGCCCTTCTATAGATATTTAG  
TCAACAGGCCTAGTTAAAGTTTCAGCCAGCGTCAACCACCAACATGTGGGTGAGTGAAC  
CCTCAAATGATTGCAGCTCCAGCCTTTGAGTCTTCAGTTGCGGTCCAGTCATTGAAAC  
AGAGTCAAGCTGCCCCGCTGTGATTTATCTGAATTTCTGACCCACTGGGAGCATAATAA  
ATGATTGTTTTATGTTNAA

Sequence 1344

GGGAGTCGACCCACGCGTCCGTCCAGAATTTCTAGAGTGGGTGGGCATGATTCCAGTCAA  
TGGGGGACCGCCGTGTCTAAGCATGTGCAAAGGAGAGGAGGGAGATGAGGTCAATGTTT  
GTCATTGAGTCTTCTCTCANAATCAGCGAGCCCAGCTGTAGGGTGGGGGGCAGGCTCCCC  
CATGGCAGGGTCTTGGGGTACCCCTTTCTCTCAGCCCCCTCCCTGTGTGCGGCCTCTC  
CACCTCTNACCCACTCTCTCCTAATCCCTACTTAAGTAGGGCTTGCCCCACTTCAGAGG  
TTTTGGGGTTCAGGGTGCTGNTGTTTCCCTTNTCTGTNCCCAGGTCAATCCAAACCTT  
CTGTTATTTATTANGGCTGGNNGGAAGGGTTTTTCTTCTTTTCTTTGGAAACCTGCCC  
CCTGTTCTTTACACTTGCCCCCATTCCTTAAANCTCATAACAAGAATTTNCATCNATNGGG  
GGGCAATGGGNTTGAAGCAAAAAGGGGCTTCNTTAACCCCGGGCAAGGCAAAAANGCAA  
TTNGGTAAAANGGANGCACCTNCCCCCTTTCTTNGNCCCCTTNTTAANTTTTNAATA  
AAANAACNNGGTTTTNTANTTTTTTAAAAAAACCTGTTTTNTANCAAAAAA  
AAAA

Sequence 1345

TAGCANTTCAGCCCTGACCTGGGTCCGCAGCCTCCAGGGCAGGGGCTGGAGTGGGTNTCT  
CAAATTAGTGCTAATGGTGGTCANAATGACTACNCAGACTCCGGCCCATC

Sequence 1346

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTATTGGGTGTGTGTTAAGAGAAAGACAGG  
AGTCAAAGATAGTTCCAAAATTTTGAACAGAACTGGATGAATACTGTTTACTGAGAT  
GGGGAACACTTAGAGAAAAATGCATTTGGAAAGCAGAAATACGATCAAGACTTCCATTTT  
TGATACATTAAGCTTGGTATGTTTAATTCATAGCTATATAGAGGTATTAATTTGGCAGGA  
CAAAATCATAGCTAGAGATAAAAATTTAGAGTTTACCAGTGTAAGATGATATTTGATGG  
CACAGGATGGACTTTCTTCTGGGATTTGAGTATACATAGAGGAAAGATGTGAGGATTGAG  
CACCAGGGGACTTCAACATTGACAGGCTCAACAGAGGAGAATTCCCAAGAGGATGAGGT  
CCACCTTTAGGACCCGCCAAAGAAGACTTCCAGACAAAGTACCTGCCCGGGCGGCCGCT  
AAAGGGCG

Sequence 1347

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTATTGTTTCTTCTACGATAATTGGT  
TTGTTGTGACTTTATCTACCTAGAGTAAATTTGGCAATTTGCATTTTCTCAAAATAGT  
TTTTGAATTTATTGTGTAATTTGCTCAAAATAGTCAATTTAAACAAATTTCTGTTTAA  
CTATTTCCCCCTTGTCAATTTAAATTTTGTATTTGTGCTTCTCCCGGTACCTGCCCGG

Table 1

GCGGCCGCTCGAAAGGG

Sequence 1348

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTACTCTGTAATATTGCTTTCTATTAAAAG  
GGTGTGGTTTTTTTTTTTGTGTTTTTTTTTTTAGCTAGTCCAGTGGTCTTTTGAT  
GTTGGTTCAGCTTAGTGGTCTCAACCCTGGAACAACCCGTANACCCACCTGGGGAGCTC  
TTAAAAATTATCAAGTGCCTACCCACCTTCCAAGATTCTGATTTAAATCCTGTAGTGT  
TTAAGGCACCCAGGTGATTGTAATGTACCTGCCCGGGCGGCCGCTAAAGGG

Sequence 1349

CCCTTAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGGGTTTTTTTTT  
TT  
NAAAAAANGGNTAAANNAANTTTTTNTTNCCTCCNAANGGGAANGGGGNTNAANTNN  
NAAANNTTTANNTTTTGGNAAAAAAAAAAAAATNNNANTTTNAAAAANCCCNNGGGGGNGN  
TTTTTTTTTAAAAAANNNNTAAANANNTTTTTTNGGGGGGGTTAAANTTTTTTTTT  
NNGGGNCAAAAAAANNNNCCCNNTTTTNNCCNTTTTNAAAAAANGGAAGGGGGGNNNNN  
NTTTTANNTNNCNNTTTTNAAAAAAANTNNTNANGGNNTNNNNATTTTTTTAAANNNNAAN  
NNNNNNNGGAAANNTTTTAAAAAAGGGAAGAAAAAANGGTTTTTTTTTTNNNGNGGC  
CAACCCNNGGTGGNGGAAAAGNNACNCCNCCNAGTTTTNCCCTGGGNGGAAAAAGNTT  
TTTAAAAAA

Sequence 1350

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGTCTTCTAATTTCAAAAATATAACTTAAAA  
ATGTAAATATTCTATATGAATTTAAATATAATTCTGTAAATGTGTGTAGGTCTCACTGTA  
ACAACTATTTGTTACTATAATAAACTATAATATTGATGTCAGGAATCAGGAAAAA  
AAAAAAAAAAAAAAAAAANGTACCTGCCCGGGCGGCCAAGGG

Sequence 1351

CCCTTCGAGCGGCCGCCGGGCAGGTACAAGTATTATGTATCCATAAAAATTAATAAT  
CTTTAAAAATGCATATGGGGGTCAGTAGGTAAAAGAAAAGAGAACCAAGAGAGCTGCAGC  
GGGGAGCACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGAAAAGGC  
CCGGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGGAACTTGAAATTTTATATTT  
AATCTTCTCATTTTTAAGTGTGGCAATGTATTGAAGACTTTGAAGCCTCTCTGCTGGTC  
AAACAAGATGTATCTGTAGGCTGGATTTAGTCCACAGCTGGCCAGTTTGAAAAGTGAATC  
CTGCTAGCCTTAATTTAAATTTTTTAAATTTAATTTGCTTTGATTCCTGCCTCTGCTC  
AAAAAATCTTCAATGGCTCCCCCTGTCTGCAAGGNAAGTCC

Sequence 1352

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTACA  
GNTATACTCGNGGAAAGTTATTTCAAATTTCAAATTTATTTACAGNGTTTGAAAAGCACAC  
AACAGAAGATCTTCATTTATGCAACAAGTCAATCATTTGCAGTATGTATGAAAAATAAAA  
ATCTAAGGTAAAGTCAACATACAAACTCTACCTNTTGCTTTCTCCATTANAATACACA  
TTGGAAATCTAAGTTCCAAACAGTTCTTNTNTACTGAANATAGTGAAATTTAGTGCAAGC  
CCCCTAATTACCAATTTTTTGG

Sequence 1353

CCCTTCGAGCGGCCGCCGGGCAGGTACATTGGTTTGATCTGGAAAGGCAGGACAACCC  
AAAGCGGGCTGGGGACAGTTCCAAGTTATAGGAGGTTTCCAATTGGCAGTTCTGTGAAA  
GAGTTTATCTTAAGACCTGGAATCAATACAAGGGAGTGTGTCTGGGTTAAAAATAAAGGG  
TTGTGGAGATCAAGGTTCTTATTAGGCAGATGAAGCCTCCAGGTAGCAGGCTTCAGAGAG  
AATAGATTGTAAATGTTTCTTATCAGACTTAAAAAGGTCCAGACTCCTAGTTAATTTTC  
TAGTGGATCAGGAAAAAGACCTGGACAGGGAAGAGG

Sequence 1354

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTNGTTTTTTTTTT  
TT  
TTTTTNTNTNTNTTTTTTTTNNANTTNAAAAAANNNANNTTTTTTTTANNN  
NANANAAANANNNTNAAANNANTTTTTTNAAAAAATCTTANNAAGGGGGGAAA  
AAAAAANNTNAAAAAANTTTTTT

Sequence 1355

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAACCTGCCTGAGTATGACCTCTCCACCTTAT  
AGTTTATGAATGTCTTGTGTTGTGAAAGTGACTATAACCCAACTTTTTTTTTTAAAGAG  
GATTGGAAGTTGTATGGATTTTTTGTATCTTCACTTTACTGCATAGGAAACAATCTAC

Table 1

CTCATCATTTAAATGACATGGGTGTCGGTTTTGTAGATCTTTGGTTTTTTGTCAGGT  
TAATTCAGTTAAACAAATGTAAACATGACATTCCTGCAGATATTGTTGTATACCAGT  
ATGGTTCTTCTCTTTCTTTAAATGTTTTGGCCATCAAGTA

Sequence 1356

CCCTTTTCGAGCGGCCGCCCGGGCAGGCACTTTTTTTTTTTTTTTTTTTTTTTGNGTTTT  
TTNA  
AAAAAAAAAAAAATTTTTNNAAAAAAAAATTTTTNTTNNNTNAAANTTTAANTTTTTNAA  
AAAANCCANGGNTTTTTTTNAAAAANNTTTTTNCCNGTTANGTTNTTNAANNANNTTG  
GGGGGGGGGNCCTTTTTNTAAAAANGGNNNNNCCGNCCTCGNAAAAAAAAAAN

Sequence 1357

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAACACTTTAAAAAGTGAATTTTAAGCTATGT  
GAATATCTCAATAAAAAACATTTTTAAATAAAAAACAATCCCAAAGCCTGGAAATTCAG  
GAACATAATTCAAAATAATTTATGGATCAAAAAATAATCATATAAAGATCTGAGAACTA  
CAATGTAAAAATATAGAAAAAGTCATAACATATTAGAAAAAATTTGAGCTGGATAAC  
AAAAATAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1358

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACATGGAAATAAGTGTAAAGAAAGGATTGC  
TTATTGGTAGCATATAGATTTAGAGTCAGGAATGATGGTGATTTCAAACAACCACAGAAC  
GTCCACATGGGTGGCTGGCCAGGATAGTGACACCTTTGCTTTCTAATGGCTTAGTGTACC  
TGCCCGGGCGGCCGCTCGAAGGG

Sequence 1359

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGAAAAAGCTAAGGAACGGTATGTATATTAA  
TCCCTTTATTAATAATGTAAAAAGCCAAAAGCAAGATAGACGCAGATATGTCCAAAATA  
TGTATTTTTTTTTCTGGAACAAATCACAAAGAAATGTAATAACAGTTACAGTGAGAGGAG  
CCTTTGACATCTCTTTCTAACTATTTGATATCATTTGTATACTAACGATGTACCTGCCC  
GGGCGGCCGCTCGAAGGG

Sequence 1360

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATAGGCCTTCTTGTTATTATTTCAAAGA  
AAGAGACTTGACGTTTTATGAGTGGGTGGATTGTAGGTTGAGCAGAACTAATGGGAGAG  
GTGCTGGCTAGAGAAAGTTAAAAATTTCTGTTAGCTTTGCATTGAGCTTTTAAATCAT  
TTGTTCAATTCACCAAGTTCAGAGGATTGGGGGTGATGGGCACAACAGAAATGATGGAATA  
TAGGCCAAATGTTACAAATAGATAAAATTACCTGACCAGTGAAGTGTGTTCTCAGTCG  
CCATGGANCTCAGATTTGAACTCCCAAAAAAAAAAAAAAAAAAAGNN

Sequence 1361

CCCTTAGCGTGGTCGCGGCCGAGGTACTATAGCTTCAGTGTGGTTAGTAACTTAGCCT  
AGGAGGCCAAGATGTCTCCCTAAACTTAGTCTCTGTCCTATTTACTTTGTTTATAAGAC  
TGTGACCTAACTCCCATGGCCAATTCATCGACTAGGTTATCTTTACTCCAATGGACCC  
AGGCCTTTTCCAGTCAATCCATGTCCAACCTTCATCTCCAGCGTGATCACTCAACTCT  
TCAACATGCCTGCTTGCTGCAGGNTTAAACCACACCCACCATCCTGTGCTTNNCCCTTA  
ATCGCCCATTTGATGCCCCGCANGGTAAATAAAAACTA

Sequence 1362

CGANGTACATGAAATGGCTGTTTTTCCCCACATTANTCAGCTCTGGATTTTGCATGTGT  
GGGGCTTTTTTTTTTTTTGATAGTTATTTGTTTTTATTTTAAAAATTTATTNGCCAA  
CCCAGTANAGAACAGCTGAGCATNTTCTCATGTATTTATTGGCCATTTGCATTTCTGCTG  
CTTATTGGCCATGTATTTATNGGCCATTTGCCGCTGCTGTGAAATGTCTTAAATNTTT  
GCCCATTTTTCTAGTGATAAAACACTGAAGCACATTTTTTAAAAGA

Sequence 1363

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAGGTGATGCTAATACTTTAAATGTC  
ATAAGATATAGATTNAAAAAGCATTGTAAATTGTATACTAGCAAAAGTCGTCTANATGGC  
ATTGNACAGGACATAATGTAAACAT

Sequence 1364

CCCTTAGCGTGGTCNCGGCCGANGTACTTAACTTTTTCAGCCTACTACTGCACACCTAG  
GCTATGTGGTATAGCTACCTTGTATATGTGGNCTGTCACTGACTAAAACTTNGTTACACA  
GNGTATGACCCTACTATTCANCTTGAGAAGATGGAAATGCTGNCATTTGCAACAATATG  
GATGAACCTGGAGGACATTAAATTAANTGAAATANGCCAGGCACAGAACGACAAGTAACA  
CATAATC



Table 1

## Sequence 1365

CCCTTAGCGTGGTCGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTNNTTNACTTNATTN  
TACTTTAAGTTCCAGGATACATGTGCAGAGTATGCAGGTTTGTACAGGTATACATGTGC  
CATGGTGGTTTGCTGCACCCATCAACCCATCACCTAGGTTTTAAGCCCCACATGCATTAG  
GTATTTGTTCTAATGCTCTCCCTCCCCTTAACAGCAGTTTTTCTATAGGNCAAAACAAAT  
TTGGGAACCAGAAATNGNCTACTGTCTTTATATAAATGATCATTACGATTGGGANGAGGG  
TTTTTT

## Sequence 1366

CCCTTTGAGCGGCCGCCCGGGCAGGTACCACAACGTTTCTACTCTATTGTGTAAGCTTT  
AAATACAAAAATACCACAACCACTCCCGGACTCCTCCATTATTTAGTAATACTGGCTGC  
CCTAGTTTTTCAGGATACATCATGCAAATAAGTTCTTTTATTTTTCAAATTATTTTATTC  
CTAAAGTATCTTTAATTTTTCTTTTTGGTTATACAGCTTATAGAATAAACAGTCACAAG  
AATCTTCATTTGTTTCTAAAGTATATAATTTTACAAAAGTTGTTTACTCAATGTGAATT  
AAAATTTGCAAGGTCTAAAAAAATAAAAAAATTTTAAAAAGTAAAAAAA

## Sequence 1367

CCCTTTGAGCGGCCGCCCGGGCAGGTACAATATATTATGAAGCATGACCACTTTATTTT  
GAAACTTAGCAATTGTATTGCTGGGGTTTATTGTATCTGTAGCATGTCACTGATTATTTT  
AGTTAGTTTTATAATGATTTTTTAAAAAACATATCTATTTGGAATAAGATACAGCAACAAT  
CATTGCTATTGACTTGTCAACCCCTTAGTTACACTGTATGATCAACATATAACAAGATA  
CAGTGGGAATGGCCCATACAGTATATTACTGTTGTGTGATGATTGGCTTTGGAAGCAGTT  
TGATTTGAAATGCTTTGATATTCTAATTGACATGGAACAA

## Sequence 1368

CCCTTAGCGGCCGCCCGGGCAGGTACATATGATGGGGCCAATGCACAATACTTTTATCAC  
AATCAACTTTTTCTTTGTATCCCTATTTCAATGAGCAGTCAGTCTCAAGAGTTACTGCA  
TTTCAGTTCTAACTAGACATTTGTACTTGTGATCACACTACGGGAATCTCTGTGGTATAT  
ACCTGGGGCCATTCTAGGCTCTTTCAAGTGACTTTTGGAAATCAACCTTTTTTATTTGGG  
GGGGAGGATGGGAAAAAGAGCTGAGAGTTTATGCTGAAATGGATTATAGAATATTTGGA  
AATCTATTTTAGNGTTNGTTCGNNTTTTAAACGGTCATTCCCT

## Sequence 1369

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTTTCTCTGCCTCACGTTTCAAGCTTAATGC  
ATCATCTTAATTCATCTTTGACATCTATTTCTACTACATGCTGCTCTCTTCTCTATCT  
TACATCTCCCAGAAATGTTTTATTTCAACAAATTGCTAATCTGTGCCAGGCATTGTTATTA  
GCAAAATGATAAGCCCTGCATGTAGCAAAGTTCTGCTTCACTTGCATATGCATTAACA  
AGCTCTGATTAGTCCCACTTAAAAACCATTTGTTCCCCCGTCATGCAGAACTCCATTGCC  
AAGCCACACAACACCCCAGCCAGTAGGGTAGCAGCTNCCTGGAGCAAGGGA

## Sequence 1370

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTT  
TT  
TTTTNNCNCNCCGNNNAAAAAAAGGNCNAAAAAANGGNTTTTTTTGCATAATNAAA  
AANNNAAGGGGNTTTNAANGGANTTGGNNTTTTTTTTTTNGNCCNNGGNAACCTTTNA  
AATTTTTTTAAANCCNGNAAAAAANTTT

## Sequence 1371

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGTCGTTTCTTCTACCTCGTCCTCACCCC  
ACCCCGAGTGAAACTTTTCGAGTGTGAACCTTACTTTTTTCCCGTTCTCCTCAAGGCAGT  
TTGAACGACACAGGTTTGAAGGAATAGTTAACTCTCCAGTATTATTGGAACATCTGGAC  
ACCACCAACAAAAATCTTAGAAAAGGGTCATTTAAGGCCTATAAAAAAGTGCCACCTTTT  
CCAGAATTAATTCAGAGAGAAAAATCTTATCTGCCTCCTGGCAGCTACAGCGCANAAAGT  
ACCTCGGCCCGGACCACGCTAANGGGCGAATTNCCAGCACACTGGCGGCC

## Sequence 1372

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGGTTTTTTTTTT  
TT  
GCGGGNANANAAGGTNCANNATTNTTNAANNNTNANTTTTTANCAAAAAAACAAAANT  
TTANCCCAACANNTTATTTTAAACAGCAANANGTAAAAANCCCAANCNACNTTCCANNT  
AANAAAATTTTTTT

## Sequence 1373

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTATTCTCAATGGATAATTCTATAAAATATT

Table 1

TAAAGAAGAATCAACACCAGTTCTCCACACTCTCCTCTAGAAGAAGAGGAGGATGGAATA  
CCTTCCCCCTTAATTTATGAGGCCAATATTACCCTGATGCCAAATCCAGACAAAGATATT  
GTCCCCCAAATAAACTAACGATCATAGATAAATACCCTCTTATAAATTTAGATGCAAA  
ATCTTAAGCAAAATATATTAGCAAAATGGAATTCAACAATGGAATAAACCTATTATACCA  
CCAAGTGGGAATTTATTTCTAGCTATTGCAAGACTAGCTTGGACCTTTTGAAAATTGATT

## Sequence 1374

ATATCTGCAGAATTCGCCCTTTGCGGCCCGCCCGGGCAGGTACTGGGAATACAGGCATGA  
GCCACCGCACCCGGCCAGAAATTATAAATCTAACCAGGATCCAACCTACAATACAATGA  
AATATCATTTCTCTCTTATAGGTTTTTGGTTTTAAACCAATCTATTTTAAAAGGGGCAATT  
CAAGGATTATGGTTTATATGGNNGGATTCTGTTTTGAATATGATCAAATGTTCACTGGAG  
AACAAGCAATAATTTGCAAAAGGCATATNTATGCCTTACATTAATGTGGATCCTCTTCT  
AAAAGTAGAATAAGCATCAGTTCAGTCACCCAACGGTGGGAAG

## Sequence 1375

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGATATGATTGGCCGGCGAATCGTGG  
TTCTCTTTTCTCCTTGGCTGTCTGAAGATAGATCGCCATCATGAACGACACCGTAACCTA  
TCCGCACTAGAAAGTTCATGACCAACCGACTACTTTCA

## Sequence 1376

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTCTTTTTTCTTTTTCTTTTTTTTTTTT  
TTTTTTTTTGGAGACAGGTNTCACTCTGTCAACCCAGGCTGGAGACAGAGCAAGATCCCGT  
CAATTAACAACAATAAATAAACAAAAATGCCCAACAAGGAAGAGAACGGGAAGTCAT  
AGGCAATCTCATTATGAACATAGATTAAAAACACCTGAAGTATATACATTACCCACACCC  
CCGACATGAATACATATGAGATGTGTAAATGTGAATACTTACATGTATGTATATGAAAGC  
AAACCAAAATCAACAATGTAAAAATAAACACATNATGACTGACTGGCATTGTGCC  
AAGAAATGCAAGCTACTTGAGAAAATCTATTAATTCATCAATTAATACTTTAAAGAG

## Sequence 1377

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATAAAAAACATTCCAGTGTCAACAGCACTTT  
AAATTTTACAGTAATATATGAAAGAACAGACTTTACACTTCTTTTGCACAGAATTATCT  
TTGCTATGTTTTAAATACTTAAGAAATAGAAACAAATTAAGAGAGTTTTACCTTTAA  
AATTTATTACATAAGCTATACACACAAAATGAAATCCTAGTTATAAAGATGCATCTAGA  
AGAATAATTTATAATAAACCAACAAAAATGAGAATGTGTATCTCCAGGAATATAAATATA  
TTTAAATGTTCTCAGTGACTGGCATTGCTTTATGCATTACATAAGATAGTATGTACCTGC  
CCGGGCGGCCGCTCGAAAGGG

## Sequence 1378

CCCTTAGCGTGGTCGCGGCCGAGGTACACAGGGGCTTGACTTTTTCAACTTCGTTTCCTT  
TGTTGGAGTCAAAAAGAACCATTGTGGTTCTAAAAGGTGTGAAGGTGATTTAAGGGCCC  
AGGTACAGCCACTGTTTGTTTACAAAATCAGGTAACCTAAGTGCATACACTTTTTCTTTT  
CATGACATCAAGACTTTGCTAAAGACATGAAGCCACGGGTGCCAGAAGCTACTGCGATGC  
CCCGGGAGTTAGCCCCCTGGTAATAGCTGTAACTTCCAATTTCTAGCCATACGCTCAGC  
TCATCCATGCCTCANAAGTGCATCTGGAGAGAACAGGTTTCTAAGCATAAAAGATGAAAG  
AGCAGTTGGACTTTTTAAAAATTCAGCAAAGTGGTTCCCTCTCTTAGGGACAGTCAAAAC  
CAAGTCACTTAGGTAGTACCTGCCCGGGCGGCCGCTAAGGGCGAAT

## Sequence 1379

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTGAATGGAATGCCTTGCAATATGAA  
TGTTAATATAATGTGTAAAGGGAGATTAAAAAGTTTGAATGATTATCCTAAAAA  
AAAAAANGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 1380

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGTAATTTTGAAACCTCTTTGATGTCTGG  
CTTATAGAAGACACCTGGGTTCTTATATCTGCTTCTGAATCGATCTATTGTAATGNNGT  
ATTTTGGCTGAAGTATGTTGAAGAAAATACTACCTTACAAAGATATGTATTTTCA

## Sequence 1381

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAAGCCATTGAATAAGCCTCTTCCTTTTTTT  
GCTCAAACATTCCACATCCTTGTGGATTCCCCTGCATTGTTTGTATATAACATTTGA  
TATTTGTTGTANCTTGTATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCTCCA  
GTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTATCTAAATTTCTAT  
TGAAGCTTTTTGGATTATGAGTATGCTGACTTTTACGATTGGCTGGTGCATGTTAGAC

Table I

TAAATGTCATATCCTTCATGTCTCAAAGCCAAAATAGTAACATCTCATCTCAGAACANG  
AGCTGTGACCACATGCCAATATATGTGTCACAAAGCTACATATGTTACATTCTTGGAA  
GTCTCCTTAAATGTTTCACAAAATGTCAACAAAGCTTGNNTTGNATTGGATATTTCCGA  
GATTGGGCACATTTAAGACAGTAAACGGGGAAAGGTGGNGAAAATCTATAAGAAAGATGC  
TGATCTTGAGAATTGAAAAATGANGAATCNTGACATGGTTTGAAAAATCAT

## Sequence 1382

CCCTTTCGAGCGGCCCGNCCGGGCAGGTACCAAAATTCATTCAAGAAGAAATAGATACCA  
GCCTGAGCAACATGGCAAAATCCCATCTCTACAAAACATCAAAAAAAAAAATTAGTCC  
GGGCATGGTGGTGCACACCTGTAATCCCAGCTTGTGAGGAGGCTGAAGTGGGAGGATCAC  
CTTGAGCCCAGGGANGGTGANGGATGCAGTGAGCCATGGGTCTCACCCTGCACTCTAGC  
CTGGGGTGACAGAATGAGACCCCGTTCTCAAAAAAAAAAGAAGTNGATAATCTTGAAT  
AGCCCTATATCTATAGAACTTAANAGTGCTGGGGAGATATAGGTATTATTATCCCTCAA  
TTTTACNAGATGGTGAATTTGAGGGTTCANAAGAAGTAAAGTCTATTGCTCAAGGTCA  
TGGTGGCTAAGAATATTGGCANANNCATGAATTCAAAATCCAGGGTTTTTTTATTCTTT  
ATTTCAAGGGGTCTTTNNTAGCAATACCCTTGGTTGNCCTNTTAAAGAAATGTCANTTCC  
NTTTTTTACTAANAAAATTTGGTTCCTTGGCCCAAATCNTAAATGTTCAACNTTCAACC  
CCANTTTTTTTTTAAAGCACCTATGNNTTGGNGTTTTATCANGCATTAAATNTTGNATT  
GGCTTTTGGAAAANACCGNGTNTCNTNTNGGGGAAAGGGAAAAAAAAANTTTTTTTTCCA  
ACTTGGCCCTTCGGNCCAANTTGGGAAAAA

## Sequence 1383

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTGTGTTGTTGGTATCCAAAATTAGGACTCT  
GAGATTCTTGTGATTTCAGAGAATTTTAGTAGGAAACAAGGACAAATTTGCATATGAAA  
TGAAAATAGTTATTACATGACAAAATATGTAGATCTGATTTCTAGAACTGAATTAGTCC  
AAAACAAGTAAGAGTGGGAAAAGCAGTAAAAGTTCTTCTGAATATTGCTGTTGTCATC  
CAAAGTATTCTTATTTCTTTTAGGTGAAAAATTTCCATTACTCTTTGNGATATTCTCAA  
AAGAAAGTTTAGGATTTTACAGGNGTTCTGAAATACTGAATCTTAATTCANGTATTTCAA  
TAGAGTATTATTGATTTGCTTCCTTATCAGTAGATTTTTAAANTATTTATTCTAGGCTA  
TAGATCTTCTAAAAATATAATCCAAAGTANNTTAAAAAGCCCGATTNTAANCCAAAGTA  
TAAAGATCTCTTTTTTGGGAGCCTGCTNTNTTAAACAGTTTTTCCCAANNTTGGGTTTT  
GTTTTTGGAAAACANGAAAATATNTGGTNCNTAAAAGCCAANCTTTANTTCTATTANNA  
GGGTTTTCTCGCTCANAANAAACCNNTNAAAAATTTANGTTTAAATTGGGNANGGGAAC  
CCCGNGNAAAAAAAAAAAAAAAAA

## Sequence 1384

CCCTTGAGCGGCCCGCCCGGGCAGGTACCTCACTCATCTCATCCTTGGCTCAGCCCTGCTG  
GTTAGTATTTAGTATTTATTTTAGTAAGATATTTGTGTCTGTATGATGGTCAGAGTTGAA  
CTGATCTGGCTTGTCAATTTTCAGTAATAAAAAAGTTACTGAATTTAATTGTTGAATAT  
GATGCATATCTCATTACGATTTATCAGAAACCAAGATTTAAATTGCCTAGTTTG  
TGGTCTTTCTCTTCTAAGTTCCAGGACTGCTTTCAAATACTATTTCTAAATTTCA  
CCAAAGGAGCAACCGAGGATAAAACAACACTCCATAAAGGCCTCTTGGGATGTCAGAAAT  
CTAAAATCTAAAAGAAAACAGACACAGAGCAAGACAATAACATCACAAGCTAAAAGCCAG  
AGAAATTTAAATTAACCAACATCCTTGTGGAGTAAGACAGTAAATATCAGCCTTGCAGC  
AAGACAGCTCTGAGCAGCTGTGGGCAAAGAGGTAACCAAGTGGGGGTGCAAGGAGACTGT  
CTGCAGCTTGGGGCAGAAATGGTGGGAANCAACTTGNGAAAAGCTTCATGTTTTACAAAC  
CAAAAAGGTCAGGTAGCACCAACNTATTGNATGGTCAAATCAATAAAAGGTTACTTTCAA  
AAAAAAAAAAAAAAAAA

## Sequence 1385

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAATTTTTTTTTTTTTTTTTTTTTT  
TTNAAAAAANTNTNNNNNTTTTGGGGNNNGNAAAAAANNTAAAAAANTTTTNNGGG  
GNNTTTTAAANNTNAAAAAATTTTTTTTTTNTNGGNCCCCCCCCCAANCATNTTAA  
ATTTNGGNGATNAAAAANAAAAANTNNNAAAAAATTTTTTTTTTTTNTGNNNNN  
TAAAAAANGTTTTTTTTTNCNNAGGAGATTTTAAAAAAGACTNTTTTTTTTTTTN  
NCAGTTTTTATTTAAAAA

## Sequence 1386

CCCTTGAGCGGCCCGCCCGGGCAGGTACGAAAGCAGTCATAGACAGTATGTAAACAAATGA  
GTGCAGNTGTGTTCCAATAAACCTTTATTTACAAAACCGGCAATGAGATGGATTGCGC

Table 1

TATGGGCCATCATTTGCAAACCTCCTGATTTANAACAACCCCTGCCATGAGTTCTTCCACAG  
GCTTGAAACAGGAAGCAAAATACAAAAGTACCTCGGCCGNGACCACGCTAAGGG

Sequence 1387

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCT  
TTTATTTNANTTTTTTT  
TTTTTTTTTTTTTTNGTAANTNNTTTTTTTTTTNATNTNTNGGNCNNNNNAAAANTTTT  
TTNGNGAAAAAAGNGNTTNNCNCNNNTTTTTTTTTTNAANANNNCCTTTTTTN  
TATNTAAAAANNNTATNNGNGNTTANGTNANAAAAATAAAAANTTTCCNCCCCANAAA  
AAAAANCNCCAAAAAAATTTTTTTTTTAAAAAAGGGCNCNNNAAAAANTTTNN  
CNCCTTTATTTNAAAAAANTTTGGNTTTTTTTAAAAAANAAAAANNTTNTTTT  
TNNAAAAAANTNCNCCCCCNCNNANANAATAATTTNANCTTTTTTTTTTTNGGGNAA  
AAAAATNTTTANAAAAAATTTTNTTAGAAAAGAANAATATATGANAATTCTCTCAA  
AAAAAANGANNTTTTAAANANTTTNAAANAAAAATAATACTNNCTCTCCTGGGGGGG  
GGGGNGGGAANNAATNTTTTTTAAAAACATANATNTCTATAAAAAAACCCC

Sequence 1388

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNTTTTTTTTTTTTTTTGGTAGTAAAAA  
TATCCCAATCTCTAAATGTATAGGTGAAAAATACTAGTTTCGAAATGATTCCTTAAAAA  
GCAACAATAAAAACTCTTNTTCACTTGAAAGAAAAAACCCAAAAGGCAGTGTCATAC  
AAAGTCATGAAGAGAAATTTAAATTAAGGTTTTGGTTCCACTTTGTCTCAACTTTAACTTT  
TAACAGTTNTTATAGGCTTTTGAAACCTACTTTGGAGAAGGAAAAAAGTAGGAATAAC  
TGTTCTTCAAAAATTTTACAAAAACAGTTTGACTCAACTTCAGTTGTTAAATTTGGGGTA  
TTTTCTATGTTGAAACAGTATTTGAAATTTCTAACTTATACTGGCAGATAAAATGATAA  
AAAAGACATTNTACTCTTNANAGGATTATCAAATGCTGGTGATTCCCGGTACCTGCCCG  
GGCGGG

Sequence 1389

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTCTTTTTTTTGGACGGAGCATCGCTCT  
TTCTCCAGGCTGGAGTGCAATGGTGCTATCTTGGCTCACTGCAACCTCCACCTCCCGGG  
TTCAAGCTATTCTCATGTCTCAGCCTTCCAAGTAGCTGGGACTACAGGTGCCTGCCACCA  
TGCTCAGCTAATTTTGTATTTTGTAGAGATGGGGTTTCACCATGTTGGTCAGGTTGG  
CCTCGAATCCTGATCTCANGTGATCCACCTGCCTCGGCTTNTCAAAGTGCTGGGAATT  
CAGGCANTGANCCACCATGCCTNGGCCGATGTGGTCAATTTCTTGGGGGTAAACCCG  
GATCCGAATTTTGCAGGTTGCTTTTGTGACCAAACCTNTTTTTNGGGGGAA

Sequence 1390

GGATATCTGCAGAATTCGCCCTTCGAGCGGCCGTCCGGGCAGGTACTCTCAAAGCTAGG  
GCTGCTGACTGAGCANCTACAGAGCCTGACTCTCTTTCTACAGACAAAATAAGGAGAA  
GACTGNACAAGAGACCCTTCTGNTGANTACCTTGCCAAGNTGTCTGCAATGCTTNGCC  
GANTTTTCTACTGAGTT

Sequence 1391

CCCTTAGCGTGGNCGCGGCCGAGGTACTTTGTTTTNGGNTGGTNGGTTTTTAAATAACA  
GCTTTACAGAGAGATATNATTCATAATTNATAAGGNTTTAACTTTTTTCTTTTTTAAAG  
ACAAAGNTTACCTTCTGTACATTGAAAAATCTCCTATATTCTNGGAAGATTCTGAGCAA  
TACATTCACGACCCAGGTTTGGGATTNNGCATACTATTGGANAACTGTTTCTGAANAT  
AAACACTTCAAGAATTTGAGAAAAATAAACTAAAACCCGAAAACATTGAACACAAAGGC  
NCAAAAACATTTGCCTTAACATTGCANNAAAAAATTACTTTAAATCCCGGATNTGGCTTN  
GNANAAAAAANAAGNTTTTTNTTGTGTTTGNNTTNGCAAAAACTTTTGAAGGAATGGC  
ATTGAANCTTTANNANGGGGGGAACCNCCNTTCCAAAGGGAAAAATTTTTTNCCTTTNA  
GAAGGGGAATTGGANCTNAAAAAANAATNTNGGGTTANAAATAAAAAAANTTTTTTTT  
TTTACAAGTTNGCNAAAAAATTAANAANAACCTTAAACCTTCTACCCAANAACCCCA  
TTTTTTNGAAAANTNGGANAAGGTTTTAAAAAATTCNAAAAA

Sequence 1392

CCCTTTTCGAGCGGCCCGCCCGGCGGAGGTACATAATGTAATTGTTACATATAATTGTTGTA  
TACCATAACTTACTATTTTTCTTTTTATTTTTATATATAATTTTTTTGGTTTGT  
GTTTGTTTTTTAATAAACTGTTATCACTTAAAAAAGTCTCGGCCG  
GACCACGCTAAGGG

Sequence 1393

CCCTTAGCGTGGTCGCGGCCGAGGTACAACCTGCCCTACATTTCTGCCTAAAGGCAATTC

Table 1

CAGACTACACANACNGAGANGAAATGCAAATAGAGCCCANCTGTCTCTGAAAAGAGACAA  
GAGAAATCTAATTTCT

Sequence 1394

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCAGTATGGGG  
TCTGTGTTGCCCAGGCTGGAGTGCAGTACTATTTCATAGGGGCAAGCATTATGCACAACA  
GCCTCAAACCTCCTGGGCTCAAGTGATCCTCCTGCCTGAGCCTCCCGAGTAGCTGGGACTA  
TAGGAGTGCACCACCACGCCAAGCTGGCATTCTCTGTTTTCTTATTTCTGATTCTACTT  
TTAGCTTTCTTAATATGCTGATATGTTTTGTTTGGTATATCATATATTAACAAAAACAGTT  
CATCTCATCCCCATCATTNTATCTTTAAGAAGCCCCCAACCATTTTACACATTTAGGN  
AAACAATGGGCAGGCAATAAGGNTAGNGAACATTCCATAGCCCTCTTTTGATAAACCA  
TCCTTACCTGNTTTTACTNGTNAAAAAGGAATTNTACAATTGGGTTTCTGGCNCCTAA  
AAATTCAAAACCTTAACTTTTTTTTGGGAGGGAGTTGGNGGATNCCAATAAANGCCNA  
TNNTTTTTTGAATCNTTGAATGGAATTGACCTGGATTGAATCCCATTAAAGTCTT  
TTACTTTATTANGGTTTTNAANACTTTATTTTAAAAATTTTCTTAAGAACTTNAAAA  
CNNCTTGGGGTCTTAANNTAAGAAAAACNNAAATTTTNTCCAAATTTTAAAAA

Sequence 1395

CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGGGGCGGAACCTGGGGTTGCGGCGTCTAAGT  
GTTCCGGTGGATTCCCAGGGACTGTCGGAGGTGTGGACTCTGCCTGCCTACCTGGTCTG  
GNAAGATGTTCTACCATATCTCCCTAGAGCACGAAATCCTGCTGCACCCGCGCTACTTCG  
GCCCAACTTGCTCAACACGGTGAAGCAGAANCTTCTTACCAGGTTGGAGGGGACCTGC  
ACAGGGAAGTATGGCTTTTGAATTGCTGNCACCACCATTTGACAATATTGGTGTGGGTG  
TGATCCANCCNGGCCGAGGCTTTGTCCTTATCCAGTTAAGTACTAGGTGACTTGATGA  
AACTACTTTGTTGAGGCTGNTGGAGCAAAGNGCAAACCTAACTATTNNTGCAATNAAAA  
NTAAAAAGTGACACATTANTAATCCTTNAAGGAAATTCATTTTCTTTTTTNTCTGGNN  
CTTCNTTTTTGAANCATGGTTATGGGAAACCTTAAGCCTGTNTTAAANNNGGAGTATCTT  
TTANTTAAANNTGNAAAANNGCCTTTTTNTACTCCTTTTAAAAAATAGNNATTTNTTA  
AATNCAATNGAAATTGNNTNGGGGAAAAA

Sequence 1396

CCCTTAGCGTGGTCGCGGCCGCGGTACTTTTTGTTTTATTTTTATTTTTTGGAGAGTA  
TGATTTCTTAGAGATTTTTCTCATGGCTACTATTAGATCAGGAATGGGTGATTGGGA  
GATTATTAGATCTAGGTAACTTCTACCACTTTACCCTAATACATAAACTTTTTCTAA  
ATAAATGATGGAAGGAATNACTTGGGTTACCTGGCATTATTTTCAGTAAGAAAAAGC  
TTTACTAACCACTACATTTATGGAAANTTGTAGGGGTAAGTATTTTATAGGTCATAAAAA  
AACACCATAATTAACGAATCTCATTTTTCTTTTAAATGTGAATTAATCCTAACAGG  
CATTCCTTTTATAAAAAATGACCCATAGGCTAAAAA

Sequence 1397

CCCTTTGAGCGGGCCCGCCGGGCAGGNACATGTGTCGCCTTANATCATNCAACCTTTCA  
GTCACACTATGTGTAAGGCAGTCTGCTAGGTTCCAAGGAATGTGGGGCTAAGTGAATAA  
GATGCAGCTCCTTACTTTAAGTCTGGCAAGGAAGATGCATTTTTTACNTAACCTCCACAG  
TGCATTGTGAAACATGCCATATGGAAGGGATAAACACTGATGACAAAGTNATTGCCAACT  
TTTACTAATTTGTCAAATTTTAAAGAGGTACCTTTGGCCNCGACCACCTTAAGGGCGA  
ATTCCAGCACACTGGCCGGC

Sequence 1398

CCCTTTGAGCGGGCCCGCCGGGCAGGTACAAGTTGTAACCCCTGATTCTGTGAATGTGAC  
CTTTCTGGAAGTACGGTCACTGCAGATGTAATTAAGTTGANGATCTCAAGATGAGATCAT  
CCTGGATGCAGGATGGGACCTAACGATAATGGCTGGTGTCTTTATAAGAGAAAGGAGAAN  
GANATTTNAGACNCANACATGCANATAGGAAAGCCNCNTGGAGACGGAAGCCAAANCCTA  
GAGTGNTTAACCTACAA

Sequence 1399

CCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCCGGCCGAGGTACT  
TACATAGATCTAATTTATACAGTGAGTCAAGACGTAGAATAAATGCTCCCACATAGCCNT  
TCTTTTGCTTTTGCTTCTCTCCTCTGAAGTGTGAGTNGAGTNCCTATTTAGGTTTGTAAC  
ATGGCTATTTCTAAGTTGTAAAGTNCCTGATTTATAANTGCCANTGTTGNAAGGTGGTG  
TTTCTANACCTTCCCTGATGCGATTTTA

Sequence 1400

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTCTTCTTTTTT

Table 1

[illegible]

### Sequence 1401

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAATCAGATGTTAAATTCCTTCAATGTAATGCT  
TCTGTCATGCCATCCTACCTCCTGTCTCCCCACCCCTCACACACACCTAAAAGCACTC  
TGGGCACAGTAGTTACACAATAAACGCTAAAAGCCTGATTTAACAACGTGTATATAACAA  
ACTACTTTTATGTGACTACTTACCTCTGGGCATGGTATTAACCTATCCCAACCAGAGTA  
CCTGCTCCGGGCGGGCGCTCGAAAGGG

Sequence 1402

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTAAAAATATATTTTCTAATTTTGAAAC  
ATTCAAGCTGCGCATAATGGTTCACACCTGTAATCTTGGCTACTTGAGAGGCTGAGGCAG  
GAGGATGGCTTGAGGCCAGGAGTTCAGACCAGCATGTGCAATACAGTGGGACACCTTCT  
GTATTTAAAAAATAAAGTATTAAGTGAATATCTGCATCTTTCCCTAGGTTACCTGTCACCTTGA  
CATGCCTTCTGAATTGTACCTCGGCCGCGACCACGCTAAGGG

### Sequence 1403

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTANAANGGTGGTATTNTAACATTTATTAAAATAATGCTGGGGGT  
TAATANAAACNNCAANAACCAANAATTAAAAATGAAGCTNTTTAAATCCCACT

### Sequence 1404

CCCTTTGAGCGGGCCGCCCGGGCAGGTACTTTAATTTTTTCTATTTATGAATTGCTTATT  
TGCTTTGCTCATTTCTCTAGTAAGCTGCTTTTGTTAATTTGTGAGTAATTTATTCTAGGT  
ATCAGGCCTCTGGCATGTTTCAAATTTCTAGTGCTTTGTCAAAGAGAAATTTTAACT  
TCAACATAAGTAATTTGTCATCTTTGTCCTTTAGTTTTTGATTTTAAAGGACATAATAT  
CTATTACTTTAAAAGTATTGAAAGCTGTATGTATATTCTTCAACTAGCCACCTTATTTCT  
GTTCTAGAGTTTGAATTTCTTAACCTCCAAAAACACACAATAATTTTAAAGTCTTGATCA  
AACTCTGTTATCTTGCATAGTCTATTTTTCAGATTCCATFAAATGAATTGAGAAAAA  
GGAGGTACCTCGGCCGCGACCACGCTAAGGG

### Sequence 1405

CCCTTTTCGAGCGGGCCGCCCGGGCAGGTACCTGGCTACAGTAAATGCTCAAGGCCCTTTGT  
TATTATTTTCAGATGGTCAAGAATAAATGTTTTTCAAGGATCTTCTTTTTGTAGACAACCTG  
TGTAAGTCACAGTTTACAGTTCGTAATATCTGCCTGGCAAGATACTTTTTAAATTTAAAA  
TGTAAGAACCTGAGGGGATTCACTCCCAAATGTTTATGGACAACTGAAAGGGCATTTA  
CACAGATATTACCTTCTACATTTATGTGAGAAAGTGCTTTAAGACACTGTACCTCGGCCG  
GACCCACGCTAAGGG

## Sequence 1406

CCCTTAGCGTGGTCGCGGCCGAGGTACATACAATAGAGTATTATTACGCCCTTAAAAAGGA  
TGAAAAAATCCTGACATGCTAAAATATAAATGAATGTTGAGAACATTATGCTAAAGTGAAA  
TGAGCCCATCTAAAAAGGCCAAATCTGTATGATTTCACTTAAGTGTGATATCCAGAGTAG  
ACAAATTCATAAAACAGAAAGTAGAATAGAGTTTCCAGGGCAGTGGGAGTTACTTGATA  
TAGAGTTTCAATTTTGAAGATAAAAGAGTTCTGGATATTGGTTGCACAGCAATATGAAT  
ATACTTAACACTACTGAAGTGCACACTTAAAGATGGTTAAGATGGTAAATTTTGTTAGGT  
GTTTCTTACCACAATTTAAAAAAATTTTAATTAAAGGAATTAATAAATTTACAAAATAC  
TATTCATCATCTGNGGTTTNCAGTTTATATTCACACAGCAGTATTTCAAGGTATAGTAATT  
AACTTACTTT

Sequence 1407

CCCTTAGCGTGGTCGCGGCCGAGGTA CTAGAAGACCTTCTCGCCACTCTCTCCACATGA  
GAGAGTCAGCTGCCCTTTCTCCTGTGCCTCTGCAGGAAGAACTCTCTTGCATGGCACATC  
TCAGCTCCTCATTGAGGGATAGTTTTCTTTGATAAGAAACCTGGAGTCCATTTACTCTGA

Table 1

CCTCTCTTTAAATCTATATCCAGAGCCACTAGCCCAGGAAAACTTGGGTGACCCGTAAT  
TTCTCTTCTCCTGCTGTCTTTTGTCTTTACGCCCCACCCCACTCCCTTAAATTTTAC  
AGGCTTATGACAGTTTGTATGTGCTCAGCCAATGAGCAGAAAACCTGGAAAGAATTTCTG  
GACTTTAGCCCACCAGTTTGTCTGGTTGACTAACCTGCTGAGAGCTAAAATTGGCACCCA  
TTGCCCCGTGCCCTTCAGGCAGTCTCCTGGGGCAGAAGTATGCCACCATCCGAATATCAGG  
CACTGAGTGGGATGTGGGTGATGCTCACATGACTGGCTAGAGCTTTGGGGGTGGGTGGG  
GGTNACTACTATTTTTTTTGGNCANGATCTCTTCCCCTTTTTTTTTTTTTT

Sequence 1408

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTTTATAGGAACCCTCAAATTAATAAAAAAATG  
TCTTTTAATGGATGAGAGGGAACCACTATAACATGAGTCCAAGCCCAGAAGACTTCTGTC  
TATACAATATTTTTTTTAAATTTTGGAGATAAAAGCTTTAAGAACTTTTTGAGTTAAT  
ATACTCATAAAATGAGTTTCTTTAATAAATTAATTTTATTGTGTAATGTATTATTAC  
ATAAAATGTGTTTTGAATCAATGCAGTTTGGGGATGAATATAATTAATAATATGTTTAAT  
AACTTAGAATCAACTAATAAAAAATTTAGCCACACTTACAAGGGGGAGGAAGTCCCTAGT  
TTAAATGTATAACTGAGTGGTAGATCAGTACCTGCCCCGGCGGCCGCTCGAAAGGG

Sequence 1409

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGNNTNTNNTGTTNCTATTACNNTTAATCCT  
TNCTTTNGTTGTGAGCTTGTNAATGCATGTNGAGGATNTGNAGCACTGTCCACTGAGTCT  
CTGTG

Sequence 1410

CCCTTAGCGTGGTCGCGGCCGAGGTACGAGCCTATAATCTCACCTACTCGGGAGGCTGAG  
GCAGGAGAATTGCTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCCGGGATCATGCCACTG  
CACTCCAGCCTGGGCAACAGAGCGAGACTCCATCTTAAAAAAAAAAAAAAAAAAAAA  
AGAGAGAGAGAGAAGGAGGGGAGAAAGTGAAGTCATAAGTGTAGACCACTCCTTCTGAGG  
GAGAATCCACCCACCTTCTCCTAGCTTCTGGTGGTTGCTGGCAATCTTTGGCGTTCCC  
TAGCTTGCAGATGCAGCACTCCAATCCCTGCTTTCATCTTCTTAGGGTGGTCTCCCTATG  
TACCTGCCCCGGCGGCCGCTCGAAAGGG

Sequence 1411

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTTTTTT  
TTTTTTTTTTTTTTTTTNAAGGGAGNAAGTTTTTAAATCCACTTAAAAATACAANAG  
CNCAATCCACATTTATTATTGATTTTTCGTTAGTTTAAATCCTTGAGGGGNACTTTT  
TTTTTTTTTTTTT

Sequence 1412

AACTTNCCCCTTNTTTNAANGGGNGGNC CGGNAANNTTTNGGGGGGGCCNCCCTTNCC  
TTNANGNATNANGGCCCATTTGGGNCCTTTNCCCGGNNANGGCCCGGGGNNCCCCCGG  
GCCCCCANGNTTNGGGTTNGGGNAATTNGGGGGGNAATTNAATTTNNCCTTTGGGGCCC  
AAGGGNAAAAATTTTTNCCGGGNNCCCCCTTTTTTTTTTNCCCGGAAGGGNCCCCGG  
GGCCNCCCGGGCCCCCCCCCGGGGGGGGCCCAAGGGGGTTTTAANCCCGGNNCCCC  
GG

GNNGGGGGNGGGGTTTGGGGGGAAAAAAGGGAAGGTTTTTGGGCCNTTTTTCTTTG  
GGAAAAAATTTCCCCCAAGGNCCCCCATTTTTNCCCCTTTTTTCCGGGGGGGGGGGTTGG  
GCCCAAGGGGGGAATTTCTTTAATTTTCCGGGCCCTTTNGGGGGGAAGGGCCCAATTTN  
TTTGGGGCCTTTTTTTNNTTTTCCCCCTTTNAAAAAGGGGGGAAAAAATAATTT  
AAANCTTTCCNTTTTTTTNGGGGGTTTNANNNAAAAANGGGNNCCCCCNAAGGGGAAN  
GGGGAATAAAAAAGGGAATAAAAAANTTTTTTNAAAAAANTTTNCCCAAAGGNCCCCCCC  
CCNCAATAAAAAAANNTNNNTCCCCCNCNANNNNAAAAAANTATGTNTCNANNN  
NTTNGGGGCCCNTTTTTTTTTTTTTTTTTTTNGGGGNGNAAAAAAGGGGNNCCCCC

Sequence 1413

CCCTTTCGAGCTGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGTTTTT  
TT  
TTTTTTTTTTTTTTGGGGGNNTCCCNAAAAATTTNNTNNGNNAANTTTNCCAAANTTT  
NAAAAAATNCNGNNTTNNNACTNANNAANNNAAAAAATTTTTNAAGNNCNTNAAA  
TNNNNCNAAAAAATTTNTTTTNTNTTTTACNNCNAANNNANAAAAANTTTTTTTT  
AAAAAAA

Sequence 1414

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCAATTATCTTTATCATAACATTTTAC

Table 1

ATGCAGCTATTTCAAAGTGTGTTGGATTAATTAGGATCATCCCTTTGGTTAATAAATAAA  
TGTGTTTGTGCTAATAAAAAAAAAAAAAAAAAAAGTACCTGCCGGGCGGCCGCTCGA  
AAGGG

## Sequence 1415

CCCTTCGAGCGGCCGCCCGGGCAGGCACAACCTTTCAGGATGCAGTTCCTTTCATGACCAT  
AGTGTCTTTTTTCTTACTCTTTCACCTACTCACAGGATTCAACCCATCTGACTCATC  
TGTTCCCTCCTCCCAGACTCTTCTTGATCTTTATTTTTTAATTTACCAGAGAAGAGCAAG  
CACGTGAGCAGTGAATAACTTGCAAGGATGCAGACTTTTTTATTTTGCATGCTACTTTT  
ATAAAAAACAAACCGTAACATAAATAACTCTTTAATGAAACTCAGAAAAATATTAATCT  
ATTCTTAAAAGGGTTTAGAAAAGAAAAGAACAGCTGTTAGGTTATTTGATTTTCAAGT  
TTATCAAATAAAATTCAAATAGAATTGGCAAATCTTTAATGGCATATGAATACTTCTATC  
ACTTAGTAATTAATTTGAACAGAGATGTTATTAGGGTCTTAGTATCACTCCATCCTTTTC  
CCTCCATCTTTATACAAAAAGAACATACAGAAATTTAACAAAGATATATGACTTACTCA  
TATGTTTTATAAAAAGTATCACCTAGCANGTGTCTTNCATTTAAT

## Sequence 1416

CCCTTAGCGTGGTCGCGGCCGAGGTACACGTGTTTTCTGAGTTCCTGGGCACAGCTTTAG  
CAAATTAATCAAACCTAAGAAGGGGGTCTAGGGAACACTGACTTGAAGCTGGTTGGCCAG  
AAGTCTGAGTGAAGCCTGGCCTTACAACCTAGTGTCTGAAGTGGGGGCAGTCTTGTGAGA  
CTGAGCCCTCTCTCAGCCTGTGGGATCTAATGCTATCTCCAGGTAGATAGCATGAGAATT  
GAATTGGATTAGAAGGTGCTCAGCTGGTGGTATCTTCTGCAGAACTGATTGCTTCTTGT  
GGTGGGGAGAAATCCCAACACATTTGGTCAAGAACTACTGTGTTGATGATTGTGGTG  
TAAGAGCAGAGGAAAAGCAATTTGATTTTTCTCCACAAGGGGAAGAAATGTTTCATGAT  
TCAACTAATGATTTACCTTTTATTGTAAGGTTATCATGCTCAAGTATTAATGTAGGAAGG  
CTTTTTTGATGCANAGTGTGTGTGTGTGTGTGTGTGTATATATGTGTGTGTTGGAGAGG  
GCTAACATTAAGGGAATGTATAAGGAAGAAATGGNGNTCTAACTTA

## Sequence 1417

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATCACACCTTTAAGATGGTCCTCCAAACAAA  
AGATTCTACAACCTTAGTTATTTAGAATTAGCTTTGAGACTTTGGGCAGGTCACAATTTT  
TCTCTATCTCCTATCCTGTAACCTCAGAACACAGACACTACTAACATCATAACATCCAA  
ACTTGGTTTTTTGTTTTTTTTTAACAGATAAAAAATGTGACTGGGCACAGTGGCTCATGCC  
TGTAATATCAGCATTTTGGGAGGCCAAGGTGGGAAGATCGCTTGAGGCCAGGAGTTTGAG  
AGGGGCTGGGCAACATAATATGATCTCATCTCTACAAAAAAGGAAAAAAGG  
CAACATTAGTGGGTGTGGTATTGAGCACTGTAGTCCAAGCTACTCGGGAGACCGAGGCA  
GGAGGATTGCTTGAGCCCAGGAGTTCAAGACCAGCCTGGGGGAAAGTTTCTAGTGGGCTG  
CAAAACAGCATCTAGCCATTGTCCTCTTCAATGTACCTGCCCGGGCGGCCGCTCGAAAGG

## Sequence 1418

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATTTACACCAACAGGTGAAGTTTCTAGAAAG  
AGTCGTCAACTGGTAACATGGGATTAGCTGCTAGAGGGACTGAGGACTCTAAAGAGAACA  
TAAGCAGCAAAATTGCAAGAGCATCTGTAACCTGCTGGGCTAAGGCAGGGGACCCAGGAGGG  
AGCAAATCCAGGAATGGGGTGGCTCCCAGGGCCGAGATCCAGACCTCATTAAACAGGAT  
TTGGTCAAGGCCCACTGGATAGTGGGGAAGCCTGTGGGGTTGTCCATGTGGTGGCTGGCA  
AGCAGGGGCTGCTTTCTGGGGGTGCTGGTGGAAATCACTAGACAGTTACCCTGTGGGTG  
CCTGCAACACTTTCTGGGCGTTATAAGGAAGATGGCCTCTAGTGTGCTAGTGGAACTCTC  
TGGAAGCTACCTGGAGGGTGTGCAAGAGAATTTGCTGGGAAGCCATGCTCTGGGGAAC  
TGGTGGAACTCCCTAGGAACTGCCTGTGGGTATGGTGCCACTGAAATCACTGNGAAAC  
CTCCTTCTGNAATTTCTTTCTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT

## Sequence 1419

CCCTTAGCGTGGTCGCGGCCGAGGTACACATAAGTTCATTCTTGGCTTTTTTAAATTTAT  
GGAAAGACTAAATACATTTGTGTCTATTAATCAAAATATGAATTTAGAAGGAAATAATTT  
TGTGTAAAAAATTGTATGTGGTAAAATTTACCTAATTTAAAAATTGTTGTTCCATAATTT  
TTTTAAAAAGAAAAATTACAGAAATAAGACTTGGGGGGTGGGGGTGAAAAGTGGTGAAA  
GAACTAAACAAGTAGAAGAGGATTTCTAAAGCACTGGTCTCATGAAAAAGTTTCATGTG  
TGACTGGGTCCACTGAGATTGAAAAGAAATGTTTATACGATATTCTAAAAATTAATGT  
TGCTGTACGGGATGACATGATACAGGACCAGAGTCTGTGTAACAACAAAGTTTTCTTAA  
AGTATTGATACACGCTTTTTAAAAATTGCAAGAGGTTTTAAGTTTAAATCAAAAATCTGTT



Table 1

TAACAGCCATTTTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGG  
C

## Sequence 1420

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTCAGAGAGGACTTGTATCTAGACCAAGAGG  
ACTATGCCTGTGGGCCAAATCTAGCCCAAGGTCTTGTCTTTGTAAAGTCCCTGTGAGCTA  
AGAATAGTTTTTCACTTTTTAAAGAGAGAGAGAGAGTGTGTGTATGTGTGTGTGTAT  
AATGTGACAGAGACTTTATATGGCCCTCAAAGCTTAATTTCTTATTGGCCTTTAAAGTT  
TGCTGACCCCTGATGGATGCTATAAAAAATAATTTCAACTATCAATACAAAGAAAACCAAC  
AACCCAGTGAAAAATGGGCAAAGAACTTCACCGTACCTGCCCGGGCGGCCGCTCAAGGG

## Sequence 1421

CCCTTAGCGTGGTCGCGGCCGAGGTACGACGTAACCTCCAGACATAGGCTTTAGACGTTCT  
CATGCCACCCTATCTTCAAAACCACAGAGAGTTTCATGAGCCAGTCTTGCCCATCTCCAAT  
CAGGGAACCTTCTAAAAATAAAATCTTAGCAATCTCCTTGCCCAAACTTCACCCCATCT  
TGGAAGGGAGGGGAGAGAGAATGTTCTGATCTATATCTGATGAGGGCGTGTGGTTGGGAC  
CTGAGCATCCTCCTGGTTGGGCTAGTGATC 3GGAGAGAGGGCTGTTACTCAGGACTCCCT  
CCAACAGAATACCAGAAACAGGCAGGCAGCTCAGGTGTATGTAAGGATGTGAGGCCAAGA  
AACCAGCCCTCACCAAGTTACCCCTGTAAATCCTTGTCTCCCATGCACCTCTACTTTGA  
GTCAGAAATGGATTTCATTGCAGGCTCAGTTGTTTGTATTATGTGAATGAAC

## Sequence 1422

CCCTTCGAGCGGCCGCCCGGGCAGGTACCAATTCTCTTATCAGTCAGGGTTCAACCAGA  
GACACAGAACCAGTAGGAGACACAAACCCACGCAGGCACAAGAAAGGAGAACAAACCAAC  
ACGAAACCCAGGGATGAGTAATCGGAGGGGAGCAGCAAGCACAGGGAAAAGATGACTGGG  
AGTCAAGAACTTGGGGTTCAGTCCCAGCTCTGCCCTGTCAATTTCCCTCACCTGTAAAA  
CTGGATCAGAAATCTTACAAAAACAAAAACAAAAACCTCTTCAGTATTTCCCTCAAAC  
AGGATCCTCCTCACATCTGTATTTATATTTAAAAAATAAAAAACAGAAAAGAAAAAGAACC  
AGCATGACATCATTAGGTGTGTGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 1423

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATCATAGGACTAGTCACTTGTGCTTTTCATGG  
ATACTGCCTGGGTGGGGGTTTCAACACTTATAAGTTAGAGAGTTTGAGAGCCAGTGGAA  
AGTAAGTGGAAGTTGTTCTGAAATAAGCCCCTGGCAATTTTCTGCAATGAAAAGGAGCAG  
AGGTCAATTTTCTTATAATGCTCAGCCTCAGAGATAGAACACTGCCCGCGTACTGTGGTTC  
GGGTTCAAGTGAGAGGCTTTTTCATGAAATCTTAGGATTGAAGAGCTCTAAGTTCAGGAT  
ATCTCAATGTTTCAGAAAGCCTGACTAAAAGAAGCCAAACCAAAACCATTTAATGTGAACA  
CAAACCTCTTTTCTTTTAGTAAGTTTTACTTTTAATACCAGAAGTGAAAGAAAAAT

## Sequence 1424

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTNTTTTTTTTTTTTTTTTTTTTTTGGGTANT  
TTTTTTTTTTTTTTTTTTTTTCTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TNGGGNNAACCATNCTTTNTNAANNNTNTTTTTNANNCATNCGGGGANAGGNTTAN  
ANNNAACCATNTAAANGCATTTTANNTTTTTNAAACCAATTTTNAAAAAANAATT  
CTGAAANANNTTTGGGNTTCAATNAATTTTTTAANCAAAAAAACTTTCTNCNA  
TNTTANNTTTAAAAAANATTTAAAAAANGNTNTTATAAAGNNGGNTTGAAAA  
NNCNTNTNTAGAAAATNANATTCATTTTTTACNNGNTTNNNGTTTTTNGGTTAAATA  
CNNTANCTNGTTCCTNAAAAACANACCCCTGNCNTTTTNGGTNATTNTAAAAAATTN  
AACTTTTTCTNAAATTTTTTNGGNAAAAA

## Sequence 1425

CCCTTAGCGTGGTCGCGGCCGAGGTACTACCATCTTAACAATATTAAGTCTTCTGATCCA  
TGGCCACCAAATGTCTTTCCACTTATTTGGGTCTTCTTTAATTTCTTCAACAATGTTTT  
GTAGTTTCCAGAGTAAAAGTTTTATGCTTTGTGGCTAAAGTTATCCTATCAAATGTTT  
TCATGCTATTGTAATGGGATTGCTTTCTTTTCTTTTCTTTTTTTTTTTCGAGAGAGG  
GTCTTGCTCTGTGCGCAAGCTAGAGGGCAGAAGTGCAATCTTGGCTCACTGCAACCTACA  
CCTCCTGGGCTCAAGCGGTCTCCTGCCTCAGCCTCCCTAGCAGTTGGGACTACAGGCAC  
ATGTCACCCAAAAAATAATTTTTGTATTTTTGTAGAGACAGGGTTTACCATGTGCG  
GCTAGGAAGGTCTTGATCTCTTGACCTCGTGATCTGCCAGCTCGGCCTTCCAAAAGTG  
TTAGGATTACAGGGCNGTGAGCNGGTTTTCTNTTTGNTTTGGTTNGAAATGGANTTTT  
CCCTTTGCTGCCCAAGCCCGGGAANNTGCAAGGGGTGTGNATCTTAACCTCACTGGNAA

Table 1

CCTTCACCCTTTTGGG

Sequence 1426

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGCTTCAGGGCCCTGTTCAACTAAGCACTCTA  
CTCTCAGTTTACTGCTAAATCCACCTCGACCCTTAAGTTTCATAAGGGCTATCGTAGTTT  
TCTGGGGTAGAAAATGTAGCCCATTTCTTGCCACCTCATGGGCTACACCTTGACCCCCGC  
GTCCTGCCCCGGCGGGCGCTCGAAAGGG

Sequence 1427

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATTGCTTAGAGCAGTGCTTTCAGATATGA  
ATCATTCTAGAATGGATTATAGAAGGATGGGAGCTTTTAGTATTTAGTAGTTTCCTTTC  
TTCTCCCTAAGTTTACAATCCATTTTAAAAAATGAATGAATTAAGTATCTCCGAAACAAA  
CTGGCAATTGCTCTGAAGACAAGTTTAGCAATTTCCGTGAAATAATTCTCTGGCTTCGGC  
CAAGGCCACTGATTGATTTCTAAGCAAAACAACAAATCCCGTCAGGATCAGGAATGATGG  
CAGAGTGGCCCTGTTGGCTTTGTAGCTAAATTGTGCTCAGCCAGAGAAGAACCACGACCA  
ACAGAGCCCTAAACTGAAGTCCCCAATTCTGTCTACTCTACCGTGCTGCACAAAACCTAGT  
ACCTCGGCCGCGACACGCTAAGGG

Sequence 1428

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTCTTATTTTCAGCCTAAAGAAATGGACAC  
TTCTCAGCATAGGCGGACGTGATTGGTTGTGGTCAATCCTTTTCTAACCAGGATCCAT  
AATATCACAGACAAGGTAATATAGCACTGTGAAGGATGTGTCTTTCTTCAAATGGAGCCA  
TGAGAGATGGTGGTTTTTAAAGTTGATTTGATGTTGGATGTAAGTAAGTCCTGTGGGAGA  
GAATTTTTTTAAATAAAAAATACTGTTTAAAAGTGCTCTTCTAACTTGATCTCTACCTT  
TTCCCTCTNCACTTCTAACTGCCCCCACCAGCTACACTTTCCAGTTTGAAATAATGA  
ACAATACCTTTTGTGCTGACAGACCAAACCTTAATTTCTGTGGGCAATGANGGGTTTTTTT  
CCCCCAACAATGAAACAAATTTTCTTGAAAAAANTCTTCTCAAAGATGGTCTTATTG  
NAAATAACCCCTTC

Table 2

## &gt;Sequence 1

ACTTAATATTTATATCTTATTTTATTATAATTTATTTATTTAACTATTA  
TTTTACTATATTTACCTTATATAATATTTTCATTTCTTCATATTTATAT  
TAAACCCNCCNNAATGGCTTTGCTCTGAGCTCNCTCCGGANGGCCGGC  
CGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAATTTGG  
AATTATATGTTATGGTAGAATAAAGATCGAGGTCCATTTTCTATACATG  
AAAATTTAAATATTTAGTTTGGGATTTGAGACTTCTATTAGGCCTCTGTA  
TTTCTTTCTAGTTTTTTCCCTACCATTCTTAATCGGAGTATCCAAGCCC  
AATCACCCCTGTATCCTATGTCCTAAAGCATCTTGAATTGGTTGTTTCATGT  
TTTTTCTTCATGTGGAGTGTCTTTGCCACCCTCTTAGCCTATCTGATCC  
CACTTAGCCTCTGAGGTTCTGTTAAGTTCTCACCTTCTTTATGAATTTTC  
CCCAGCCATAATGATCTTTTTTAACCTCTTTGAGCTTTTACTATTTATACT  
CTTTACCTAACCCTAACTAAATGGTTTTTGTGAAATGTGAGAAGATATAAAT  
ATGAATGGATAAAAATACTGTATGTACAAAAATTTTAATATTTACAATA  
ATAGCAATTTTTTGTGATGGACCTTTTTAGGGAATTTTTATTTGGCTTTT  
AAGGGATTAGGGTTTATGCCTAATTAATAATTACCATGCC

## &gt;Sequence 2

TTTTCTTAGCTCATCGCGGGCGGCCGGAAGAGCAACCGAGATGAAGGTGA  
AGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGAC  
TTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT  
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAAGTGAACGAGTAT  
TTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTATGGAGTCAAT  
TGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTG  
TGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTA  
CCT

## &gt;Sequence 3

TTGTCTGTTGCATCGAGCCGGCGTNCGGAGAGGAGTCTTTACTTAGAG  
TCAAGCTGAAGGAGCATCACACCCCAAAGACTGTTATGTTGTGAAATTT  
AGGCTGTGTTTTAATAATACTGATGATGATAGGATGAAATAGTAATTTAT  
TGATTACTATATCTACTATATGTCCGTAAGATAGCAGGGTCTTTATACTC  
GGAATCTCATTTGATCCTCATAGTTTTTATTGGTTATTATTATCCTCATT  
TTACAGATACAGAACTGAGGCTTCAGAGAGGCTGTGTAATCAAGAGTTT  
GTATGCCCTTTCATCTGAGGAGGTTGAGGACAATCCCAAGTTAGAAAAATA  
AATGTCCTTAGCATTATTTTTCTTAATGTTTAGAATATTAATAAGTTAC  
TCAGATAATCTATTGGAATTTCTTCATGGCAGGGGGAAGAGGCTAGAGTT  
GGTTTTTGGTTTTTTGTTTTTGGCACAGGGTCTCACTCTGTCAACCGAGGT  
AGAGTTTTGTGGTGTGATCTTGGCTTACCGAAGCTTCAACCTTCTGGGGT  
TCTACCTCAGCCTTCCAAGTAGCTGGGACTACAGGGGTGCATCAACACGC  
CCCCGTGTACCTCGTCCGTTTAGAAATG

## &gt;Sequence 4

TGAGCCGTATGCATAGAGNCTGGCGTCCGAGGTACTCAGTTTCCTTATCT  
ATAACATGGGGATAATATTCGTAGCTACATCGTTGTTATGAGGATCAATA  
TCTGTAAAGCTCTTAGAACATGCATTTTCTTGTACTAAATTGTAAGGTC  
TGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAGGCTG  
AGGTGGGGGCACTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTGC  
TTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCC  
AACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGA  
AACCAGACTTAAACATATGAAAAGTTAAACATTGGTCAGGCACAGTGGCT  
CATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCACCTG  
AGTGTAGGAGTTTCGAGACCAGCCTGTCCAGCATGGAGAAACCCCATCTCT  
ACTTAAATACTAACTAGTTGGGCATGGTGGCGCCTGCCTGTGATCCCA  
GCTACTTGTGAGGCTGAGGCGGGAGAATCATTGAACCCGGGGGGAAGG  
TTATGGTGAGCTGTGACCGCCCCATTGCC

## &gt;Sequence 5

GGCGGCCGCCCCGGGCAGGTACCATGGAAACCACTCTTTCATTGAAAGGA

Table 2

AATTAGGTTGAACCTCCAGGAGCCCGTCAGAGTCTGAGGAGAGGCTGGCT  
TGATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATT  
GCCTTTCACTACCGGACTCTCCT

>Sequence 6

CATCTGTGCCNNATTTGAAATGCGAGCTTCACCGCGGTGGCGGCCGCC  
GGGCAGGTACCTATGACCATCTTACATTATTTTATGGGTGGGGGCATT  
GGCTGTGGAATGTGGGCAGTAACTTGCACAGTCAGTAACCGTGTGAGTAA  
CGGGTTGTTGGCATCCCCATTCTGGCACTCCTCCTAGGTCTCACCTAC  
ACGCTGGTTTGTGGGCGGAGGGGCGAGGTTGGTGGTGGGGTGTCCGGGCA  
CTGGCTGTGCATGCCTTCTTCTCTTCTGTCTCTTGGCCACCTTTTCAA  
AAAGTCAACAGTGACCAATTCTCCAGTGTTTCTTTGGGACTCAATGCCT  
TGGGCTTGGCATTGGGTAAAGCCGACTGGCCAGTTTCATTCTGACCAGCT  
CTATAGTAGTCCGGTGTGGACCTCTGCCCTCCCTGCTCTGCGGAAGCTTC  
CTCAGCCTTTGCTTCTCACTATTTACTATTTGCGGGGCTGGGGGTACCC  
T

>Sequence 7

GGGCGATTTGCAGGCCTCTCCGCGGTGGCGGCCAGGTACGGATCAATTCC  
GCTGAGTTAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGAAAGG  
ACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGACTCCATCACG  
GTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAACTCGTTCCAGTT  
TGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGGATGT  
AAAGCAGGATCATAGTTTCTTGGAAGTCTCTGTAAGTCCAAGTTGGTTTC  
GCGGACATAATTGTCCGGATTCCGGCTCAGCATCTTCACCTTCATCTCGG  
TTGCTCTTC

>Sequence 8

GAAATGTTAGTCCACTCACGTGGCCGAGGCGACCGGATGAGCAACCGAGA  
TGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACC  
AAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCC  
TTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAAGTGG  
AACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGAT  
GGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTC  
TGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATT  
GTATCCGTACCT

>Sequence 9

TTTCTGTTGCTGTCCGCGGGGCGGCCGAGGTACCACATGCACTGATAGC  
TCTCTTTGTATGAACAGAGCTGTGGCAGGCCCTATGCCAGGGAGAAAGTA  
AGATTGGAAAAGAGCTTACCAAGGAGGTGGCATTGCACTGTGCTTAAGG  
GGCAAGAAAAACGTCTTCCAATCAGGAGCCACAAATGCTTGGCTGAAGTG  
CTACTGCTCTTTCATCCTGGAGCTGGAACAGACGTCACCAAGTCAATCATG  
ATGGCTGCTGGGTGCACTGGCTAACATCTATAATCCCAGCACTTTGTGAG  
GCTGAGGGTGGGAAGATTGCTTGGGGCCAGGAGTTTGAGACCAGTTTGGG  
CAAATTGCAAGACCCTGTCTCTGCAAAAAAATATAAAATGTAGCTGAGTG  
TGGTGGCACCTGTAGACCCAGCCCCAGCTACTCGAGAGGCTGAGATGGGA  
GGATCGCTTGGGCCTAGGAGTTCGAGGCTGCAGTGAGCTATGATTGCACC  
ACTGCACTCCAACCTGGGTGACAGAGCAAGACCTGTCTCTAAAACCATTA  
AATTAATCAAAAAAAAAAAAAAAAAAAGTACCTGCCGGGCGGTCTGTT

>Sequence 10

GGTGCCTTACCGGGTGGCGGCCGAACATCCATGTTTTAACTAGCACAGA  
CAAAACCTATGTGTTACTATCAAAATAAAATTTAGAAAAACAATTTCTT  
ATAAAATTTTCTGTTTGTATTTGGACTACATAAACTGGCTTTAAATTTGA  
GAAATATGCCCTAAAACCATAAAGAAAAAGCCAACAGAAAGAACAAAAAG  
ATCACAGCAATTAGGCCGTTCTATTCAATTTTGCCATGAGCTAAAAATCA  
CATTCTTCACAAAGTAAATTACGCCCTGTTTTTATTCTTAAGCACTAGG  
GTTAGGATTGTGATCTGAGCTTTACTAAATCGGAAAAAGAAATCTCAATT  
ATAGAACATTTAGTTTATTATACCTTAATGCCCGGAGAGGTAATATTTT  
ACTTTAAATGCATAACCCATGTGACATGCTAGGTCTTCCAAAAC

Table 2

## &gt;Sequence 11

CGAAAGACCCTATCAGGGGCGGCGCCGACAGCTACGCGGGATTGCTGGC  
CTGGTTCTCCAGGGAGCTGAGATCACTGAAGCTGTGGTCGCTGCCGTGAT  
GTGGAGGAGGCAGAGCTCAGATAGAAAAGGAGGGAGTGACACTCAAGCTG  
CAAGCAGTGACAGTGCCAGGGCTCTGATGTGTCTCTCACAGCTTGTAAG  
GTGTGAAGACAGCTTGCCCTTTGATGTGGGACTGGAGTAGGCAAAGAGTTG  
GTTCCATGCCCTTCCCCTTTGGTGGACCTTGAAAGAACCCTGGACTTT  
TGTTTTCTGCCAAAAGGGCAACCTGGCAATGATGTTCTGATGGTTTCGTC  
GTTAGGGCCATAAATGNNTGTAGGGAGGGTGGGGAGTAAGTAGGAACCCC  
GCAATCCGGGAATCGCATCAACCCATAGGGCCCCCTTGATTGTCTAAAC  
GACCTGAACCCCTTGTTGCCTTCAATTTGACTAACAAATTGTAACCTTA  
TTCTCCAGTTTTCCCAAGGAGAACCAGGGGGCGTTGTACCAACCCCCCTT

## &gt;Sequence 12

AGGTACTTTTTTTGTTTTGTATTTTTAGTAGAGATGGGGTTTCAACCGTG  
TGGCCGGGCTGGTCTTGAACCTTTGATTTCAAGTGATCCGTCCACCTCAG  
CCTCCCAATGTGCTGGGATTACAGGTGTGAGCCACCATGCCTGGCCTTTT  
TCTTTTTTTTTTTAAACGAAAAAATGTTTTTAATTGACAAATAAAAAATG  
ATGTATATTTATGGTGTTTTTCTCTTTTGCATCATCAGTCTCTTTCTCA  
TCACTGAAACCTACAAATATTTTAAATCTTTCCATTAAAAAAATTTTGC  
TGATCATTC AACCTCTTCAAATTATTAAGAGATACTTACTTTGTATGAAA  
AATTTTGTGCGAGATGTATAATCCATTTTTTCTGGGAAGAGAGTCAGTT

## &gt;Sequence 13

TGGGGTTGCTTNCATCACTTAGGGCGAATTGCGTCCGAGGTACCAGGTG  
TCATTCCTGCAGCAGGATTTAACAGATGCAGATCTGGCCCCAGTGTGAGC  
ATCTGTGTTAATGGTATCAGACTTAAAGAAGGAAAGACCTGATTTGACTG  
CTGTTGGTTTGGTAGTGTTCCCTGATCCGGAGCCAGTTTTGTGGGAGGGA  
GTCCCAAAGCAGGTTTGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGA  
CAAAACAGTAGAATCGTACCTGCCCCG

## &gt;Sequence 14

CTTANNTTGCTGAGACTTCTATCGCGGTGGCGGCCGAGGTACGGTATTCT  
CTTAAACAAGAGCAAGCCCATGATGATGCCATTTGGTCAGTTGCTTGGGG  
GACAAACAAGAAGGAAAACCTCTGAGACAGTGGTCACAGGCTCCCTAGATG  
ACCTGGTGAAGGTCTGGAATGGCGTGATGAGAGGCTGGACCTGCAGTGG  
AGTCTGGAGGGACATCAGCTGGGAGTGGTGTCTGTGGACATCAGCCACAC  
CCTGCCCATTGCTGCATCCAGCTCTCTTGATGCTCATATTCGTCTTTGGG  
ACTTGGAATGGCAAACAGATAAAGTCCATAGATGCAGGACCTGTGGAT  
GCCTGGACTTTGGCCTTTTCTCCTGATTCCAGTATCTGGCCACAGGAAC  
TCATGTCCGGAAAGTGAACATTTTTGGGGTGGAAAGTGGGAAAAAGGAAT  
ATTCTTTGGGCACGGGAGGAAAAATTCATTCTTAGTATTGCATATAGTCTT  
GATGGGAAATACCTAGCCAGTGGAGCCATAGATGGAATCATCAATATTTT  
TGATATTGAACTGGAAAACCTTCTGCATACCCTGGAGGCCATGCCATGCC  
ATTGCTTCTTGACCTTTTCCCGGGCTTCCAGTTCCTTGCAATTGTTTGA  
TGATGGCTACCATAAGATCTATATGGCC

## &gt;Sequence 15

GAGGTACTGCTCCCTGCACGATCCAGTCAGCCCCTGCCCGGCTGGTTATG  
TAACAAACAAGTCTGTGTCTGTGTGGAGTGTTCAGGACGAGTGGAATG  
ACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGGTT  
CCAGTGCTCTCCGATGGAGAAGTATCTTGTAAGGAAGCAACTTCCATAA  
AAAGGGTCAGAAAAGTCTGTGACCGATCACTTCTTTTCTTGATAACTGT  
CTGCGGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAGTGTGATCATTGG  
AGTGATTGAAGGTGGAGATGTGATGGAAGAGAGGCTGAGGTCAGCACGAG  
AGACAGCCAAGCGGCCTGTGGGTGGCTTCCTTCTGGATGGTTTTCAAGGA  
AATCCAACAACCCTGGAGGCTAGACTACGCTTGCTGTCAATCAGTCACTGC  
AGAGCTGCCGGAGGACAAGCCAAGGCTCATATCTGGTGTAGGGCGCCAG  
GGGAGGTGCTCGAGTGATTGAAAGAAGAGTGGGACTTATTTGAGAAGTT  
TTTCCCTTATCAAGTAACAGAGCGGGGGTGTGCCCTGACTTTAAGTTTGT

Table 2

TACCAGCCCAATTCCGAGAGACCCTCTCCATCAAAGG

>Sequence 16

TGGTCGTTGATTCTCCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGAAG  
AGGTAATTTTAATGCCATTTTCATGGGACACTTGGGAGCTAGATTAGAAG  
AAGCCAAGACTAGAATCGGGGAGATGAGTTGCAGAGGGAAGTGGTGAAGG  
TCTGAAGGAAGGTAGGAAAAGGTCGGACACATTCCAGACATATTTAGGGG  
TGGAGGTGGTTGGATATGGGGAGTTTAAAGGGGAAGGAATGTGGGGTGAT  
CTGGGTGGTGAGTCAGTCGGTATTGGTGACTTGTAAATCATTTTCGGTTGG  
AAAACAGTTTGACTGTGCGCTCTTCATATTTTAACTTTGGAGCCTCTCG  
CCTTTCTAATTTTGTGATTTCTCATTTTACTGGTTCACTTTGGGGTTA  
TCAGAACCCTCCGTTTTTAAATTTTCCCCGGTTTCCAAATTTCCCTTCC  
CTTAAATATTGTTCAATTTGGCCCTTTTGTAAATTTCTAAAATTTTCC  
ATTTTCAATATTTTGGATGCTGTGAAATTTTAAATAAAATATCTGTTGG  
CAAAATTATATTGTTTACCATATCAGTCATTGGGGTTCCTTGCCCTCATT  
ACATTCTATACCCCTTTGGCC

>Sequence 17

GGGAGTCTGTGCTCATTCGGGTGGCCGGCCGCCCGGGCAGGTGACTTTAG  
TCCTCACTCTGTGGGCAGGGGCATTACAGCATAGGGGTCCCTTTTGTGAG  
GGATTTATGATGGCATCACACGAGGATTACAGAGAGCATGAATTGAAAAA  
TACATATGATTGGCTGGGCGTGGAGGCTTATGCCTGTAATCCCAGCACTT  
TGGGAGGCTGAGGTGGGTGGATCACCTGAGGTCCGGAGTTCGAGACCAGT  
CTGACCAACATGGAGAAACCCTTTCTCTACTAAAAATACAAAATTAGCCG  
GGCGTGGTGGCACATGCCTGTAATCCCAGCTACTAGGGAGGCTGAGGCAG  
GAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCAGCGAGCCGAGATTGTG  
CCACTGCACTCCAGCCTGGACAATAAGAGCGAACTCCATCTCAAAANAA  
AAAAAAAAAAAAATGGTACCTT

>Sequence 18

TGGCGATCGAGACCTNACCGCGGTGGCGGCCGAGGTACGATTCTACTGTT  
TTGTCTTCTAGGATCAACTCGGTCAATACCACAGCTCAAACCTGCTTTGG  
GACTCCCTCCCAAAAACCTGGCTCCGGATCAGGGAACACTACCAACCAA  
CAGCAGTCAATCAGGTCTTTCCTTCTTTAAGTCTGATACCATTAACACA  
GATGCTCACACTGGGGCCAGATCTGCATCTGTTAAATCCTGCTGCAGGAA  
TGACACCTGGTACCTGCCCC

>Sequence 19

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTT  
TTTTTTTCCCCGGGAGAGGAATTGGGAAGAGCAAATTGCTGCTGAAAAT  
TTCTACATTGATCCAGACAAACAAGTTAGAGCAGGCTGAAAAAGAACCTT  
TGGTGTTTTTACTGTGTTCAACCAGATCAACTGGAAAAGTATAGATACCT  
TAATTAGCACTGTGCTCTGTGGGATTCTGGTCAGCCTGGCCCACTGGTTT  
TTTTCCCCTGAACACGCCTGAAAGGGGAGCTCATAATGACTGCTGTGCAG  
GTGGGCGGGGAGGGGGCTTCCTATTTGATTTAGTGGCTGATCAATGCCAG  
TTACCAATTATTGGTAGCCCCATTTATACATGGTGAAAAAAAGTACCT

>Sequence 20

TGGGGTGTGCTGGCTGGTAGCGGCTTCGGCCGAGGCCACCACAATTTTTTA  
AGTTCTAAGGTAGCTTTCTCAAAGAAAACCATTTTCAGGGTGTCCATTAAA  
AGAGCATCTGCGAATTGTTTTTGCAGGGACTCCTAATCAGTCAGGAGAAG  
TAGAATGTAAGCAAAGTCACAAACCTCCCGTAAGAAATTTGGTTCACCAGG  
ACACAGCTCCTCTCTTATGAAGGGATGAGAAGCAGACCCCAAACCCAGTG  
CCACAGTCTCCCTGGAAACAGCAGCAGGCTTGGGGAATGCTTCCAAAAGG  
CTATGCCATTCAAGGTCTCAGGTTTTTTGGTTAAAAATACAACCTTAGGCC  
AACTGCAGTGGCTCATGCCTGTAATTAATCCAACCTCTGGGAGGCCCGAG  
CGGGTGGATCTCCTGGGGTCAGGGGTTTGAACACAGCCTGGCCAACATGG  
TGGAACCCCATCTCTACTAAAAATCCCTGTGGGTACATTTAATGAGGAAA  
AAAAGGTCTTGGCCCGCCGGCGGTTTAAACTAAGG

>Sequence 21

TGGGGAACGTTGTTCGACTCCGGGTGGCGGCCGAGGTACGATTCTACTGT

Table 2

TTTGTCTTCTAGGATCAACTCGGTCAATTACCACAGCTCAAACCTGCTTTG  
GGACTCCCTCCCACAAAACCTGGCTCCGGATCAGGGAACACTACCAAACCA  
ACAGCAGTCAAATCAGGTCTTTCTTCTTTAAGTCTGATACCATTAAACAC  
AGATGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGA  
ATGACGCCTGGTACCTGCCCCG

>Sequence 22

TTATGTACGTGCGACTCACCGCGGTGGCGGCCGAGGTACAGAGTAGAGAGA  
GTTCTGCAGGGATGAAGTGGGAGACGTTGATAGGACCAGACCAGACCAGG  
CCTTGTAGGCCATGGAAGGACTTTGGATTTTACACCAAGTGCAACAGGTA  
ACTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAATTT  
GAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGA  
AGAAAAGGAAGAGAGCAGTTTGGGAAGCTACTACTGTTGTCCCAGAAATAT  
GTAATGGTGGCTTGGCCAGGGTGGTGGATGNNCATAATTTTTTTATTGTG  
TGAAATTTTATTCCTTATTAATTTTTTGAACAACCTTACTAACTCTGAGTA  
TAAAATTTAAAGACTGGGTTTCCAAAATATGATTCCTTATTTTCATTGAAT  
GTTATAGCTCTAATTGTTCTTTTTTTTTTCTGATACATTATTTTCTAC  
TATATTACTAAATCTTAAAATCTCGGTTAGAGTCTGATATATAATGGGTC  
CATTTTAAGTGTCTCTTTTTTACAAATTGCGTAGTAGTTTGTTTTTT  
TACTTTTAATTAATATAAGTCTTTTAATTTTTTATTTTTT

>Sequence 23

GGGTGATGAGACTTCATCGCGGTGGCGGCCGAGGTACACAGTAGAGAGAG  
TTCTGCAGGGATGAAGTGGGAGACGTTGATAGGACCAGACCAGACCAGGC  
CTTGTAGGCCATGGAAGGACTTTGGATTTTACACCAAGTGCAACAGGTAA  
CTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAATTTG  
AACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAA  
GAAAAGGAAGAGAGCAGTTTGGGAAGCTACTACTGTTGTCCCAGAAATATG  
TAATGGTGGCTTGGCCCAGGTGGGTGGNTNNNTNATATAAATTTTCCTTT  
TTACATTGTAACCTCGTCTACTATTTCTCAACCAAAATTATATATTGGTCC  
TCATTTAAAATAAGAACTAGTTCCTCAAAAATGAATATATCTAAGGTCTTA  
CTTACCGGTATGAGAACCATTTTAACCTGTTTGGCCCCGTTATATTTATT  
GAATTCATCCTATTTTGCCTGAATAGAACAAATTCGCTTCTGGGGGCCTT  
ATTCGTTATTTTCTATTTAAATTGTATTCCGTCATTCAATAGTGTGGGCC  
GAGGGTCAGCTTTTGTCTTACTGTTTAAAGTTTTTTTATCCTCCTAATATT  
TATTGACAAAAAAT

>Sequence 24

TGGAGTATCCTCACCGCGGGCGGCCGAGGTAÇAAAAAAGCACAGCCTG  
GCTCTGGGTAGAGACATGCTGACTGATGAGATCACCAGGCAGCTGCAA  
AGGAGAGTCCGGTAGTGAAAGGCAATGCGCTGTTAGCTCTAAGCAGCCTT  
GCTGTCGTCGTATCTAGACATGAAGCCAGCCTCTCCTCAGACTCTGACGG  
GCTCCTGGAGGTTCAACCTAATTTCTTTCAATGAAAGAGTGGGTTTCCA  
TGGTACCTGCCCCG

>Sequence 25

TGGGGNATGTATCAGCTCCACCGGGTGGCGGCCGCCGGGCAGGTACGCG  
GGAGGCACATTCTTTCTACGTGAAGAGTTTTGTAACTGAACTTTGTTT  
TCAGTTCCGGCTCCAGCCATCCTGGGGTAGCTTGCCAATAGATGAATCCC  
ACTCGTTTGACCCATGACGCTCCTTCTTTTCATTTCTCCCTCTTTCCCA  
CAGCAGTGCATGTCCACCATAACACCTGAGAGTCTGTGGAATCTAATTTT  
CTGTTATACTTCTTTCTTACACTCATTTTCTGTCTTTATTATGATAGT  
CTAACTTTTTCTCCTCAAAGGGATAGCTGCCTTGCTTTTCATGAAAACACA  
CTTTTCTAATGGGGAATTAAGAAGGCCTTTCCATTTTAAAGCCCCATG  
CCTTGACAGAATTTATTAATAAATAGGGCCTTTCAAAGGGGAAACCGTTC  
CAACATGCCTACAGAATGTTTATAACCATGAAATATTTACTGGCGTTAA  
GTCCAAAATGCTGACTATCCTGGTCCGTATCCTTTGACCACTGTTAATG  
TATAATTTGCAGGTGAATGGTC

>Sequence 26

TGGGATGTGCCTCATCGGGGGCGGCCGAGGTACGGATACAATTCGCTGA

Table 2

GTTAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGAAAGGACAGT  
AGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGACTCCATCACGGTGAC  
CATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTA  
GCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGGATGTAAAGC  
AGGATCATAGTTTCTTGGAACCTCTGTAAAGTCCAACCTTGGTTTCGCGGA  
CATAATTGTCCGGATTCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCT  
CTTC

>Sequence 27

CTCCCTCATATTACTATTCTATCTCGTAATTATTGTTAATTAATTTACAA  
TATTTTATCAATTAGTAATCTTTTCTTAATTAAACAANNANCNANNNTT  
GTCTGTTGTGATCCGCTTCCACGCGGCGGCGCGGAGGTACGGATACAA  
TTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGA  
AAGGACAGTAGCCAGCTTGTCTGGATGCTTTGCCAAGCAATTGACTCCAT  
CACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCC  
AGTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGG  
ATGTAAAGCAGGATCATAGTTTCTTGGAACCTCTGTAAAGTCCAACCTGG  
TTTCGCGGACATAATTGTCCGGATTCCGGCTCAGCATCTTCACCTTTATC  
TCGGTTGCTCTTC

>Sequence 28

TGGACTGTGCGCCTTTCCGCGGGGCGGCGGAGGTACTCAGTTTCCTTATC  
TATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATCAAT  
ATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTTAAGGT  
CTGGCAGGCGCGGTGGCTCACACCTGGAATCCCAGCACTGTGGAAGGCTG  
AGGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTGC  
TTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCC  
AACAAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGA  
AACCAGACTTAAACATATGAAAAGTTAAACATTGGCCAGGCACAGTGGCT  
CATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCACCTG  
AGGTACAGAGTTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCATCTGT  
ACTAAAAATACAAAAGTCTGTTGGGCATGGTGCGCATGCCTGTGATCCCA  
GCTACTTGAGAGGCTGAGGCGGGAGAATCACTTGAACCCGGGAGGTCTAG  
CGGCCGACCGGGCAGGACGCGGTGAT

>Sequence 29

TGGATTATGTTGAGCTCCCCGCGGTGGCGGCGGAGGTACTCAGTTTCCTT  
ATCTATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATC  
AATATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTTAA  
GGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAG  
GCTGAGGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAA  
CTGCTTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAA  
ATCCAACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTT  
AAGAAACCAGACTTAAACATTGAAAAAGTTAACATTGGCCAGGCACAGGG  
GCTCATGCCTATAATCCCAACACTTTGGGAGGCCAAGGCAGGAGGATCAC  
CTTGAGGTAAGGGTTTCAGACCCGCTGACCACATTGAGAAAACCCCTT  
TTTCTTAAATCCAAACCTGTGGCT

>Sequence 30

TGGGGATGTTGCAGCTCTGTCCGCGGNGGCGGCGGAGGTACTCAGTTTCC  
TTATCTATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGA  
TCAATATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTT  
AAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTATCCCAGCACTGTGGA  
GGCTGAGGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTA  
ACTGCTTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGA  
AATCCAACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGT  
TAAGAAACCAGACTTAAACATATGAAAAGTTAAACATTGGCCAGGCACAG  
TGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATC  
ACCTGAGGTGAGGAGTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCA  
TCTCTACTAAAAATACAAAAGTCTGTTGGGCATGGTGCGCATGCCTGTGA



Table 2

TCCCAGCTACTTGAGAGGCTGAGGCGGGAGAATCACTTGAACCTCGGAGG  
TCGAGCGGNCGCCCCGGCAGGACGCGTGGGATGN

>Sequence 31

GACTGATGTCGACTCCCCGCGGTGGCGGCCGAGGTACTCAGTTTCCTTAT  
CTATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATCAA  
TATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTACTAAATTTAAGG  
TCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAGGC  
TGAGGTGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAC  
GCTTTCTCAGAAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAAT  
CCAACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAA  
GAAACCAGACTTAAACATATGAAAAAGTTAACATTGGGCCAGCACAGTGG  
CTCATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAAGATCACC  
CTGAGTAAGGAGTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCATTC  
TACTAAAAATACAAAACAGTTGGCAATGTGG

>Sequence 32

TGGGATGTGCCCCCTCCGGGGGCGGCCGAGGTACGTATGCACTTGCTTGCC  
ATCTAAGCAGGGACAATGGCAGTTCATATCATGATGTTACTTTGATTCTC  
TGACCAAACCTGGCCTGTGAGCACCTGGGCCTTTCTTCTCTGTCAAAGG  
CCTTAAGACAGGTTTACCCTGTAGCCAGGTCTGGAAGACAGAGCTGGGTT  
AAAGCTGGGTGGGAGAAGTGAAAAAGGTCAGGTTTACATTCCTACGCGGA  
AAAGGATGTAACACGGGGCCACATCCTATGCCAATCCCAAGGCAGGGAG  
GCAGGGAAGTGGCTGCCAAACCTGTTGTAGGAGAGTAATAAATGACTTGA  
GAGTAAGCCTAAGCAAACCTCAAGTGGAAGGGGAGTGGGCTGTAAATAG  
TTTAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGTGTAGAAAGGTAA  
CAGTCAACAGTTCTCCTAACAAGACAGCTTCAAAGCAGCAGCTATAAGTG  
AGCATTCTGAGGCCTGCTGCAGATCAAAGCATGAATGTGCAGACTGGTC  
CTCTTGCCCAGCGTTTCTTTCAAATCTTTGCACATGTTATATTTTAGAGG  
CAAGTTCAGTTCTAGAGGAGCTGGCCTGC

>Sequence 33

TGCCTGATGTTTGATCGAGTTCCCCGCGGTGGCGGCCGAGGTACGTATGC  
ACTTGCTTGCCATCTAAGCAGGGACAATGGCAGTTCATATCATGATGTTA  
CTTTGATTCTCTGACCAAACCTGGCCTGTGAGCACCTGGGCCTTTCTTCC  
TCTGTCAAAGGCCTTAAGACAGGTTTACCCTGTAGCCAGGCTCTGGAAGA  
CAGAGCTGGGTTAAAGCTGGGTGGGAGAAGTGAAAAAGGTCAGGTTTACA  
TTCTACGCGGAAAAAGGATGTAACACGGGGCCACATCCTATGCCAATCC  
CAAGGCAGGGAGGCAAGGGAAGTGGCTGCCAAACCTGTTGTAGGAGAGTAA  
TAAATGACTTGAGAGTAAGCCTAAGCAAACCTCAAGTGGAAGGGGAGTGG  
GCTGTAAATAGTTTAAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGG  
GTAAAAAAGGAACAGTCAACAGTTTCTTACAAGACAGTTTAAAGCAGCA  
GTTTGGGGAGCATTCCTGAGCCTGGG

>Sequence 34

TGTTACGATGCTCATCGGGGCGGNCGAGGTACAGTTAAAGTCTTCTAG  
CCTGTATCCCCACTCCTTTTGGCACTTGCAAATTCGGTAGCCAGTTAC  
CCAGAGGGAGGCATAGGAGGGAAAAACGAAGACTGAAAAGGGCTAATATGA  
GTTTTGTCTCTTACAATTTATCTGCATCTTATCCTTCCCCCACCCCCAT  
CATTAAATCATTAAACATTCTATCCAAATAGGATGCCCTTCTGTGGAAC  
GCATATTTGAAACCATACTGCCTGTTTAACTTATGCACTCCACTGGGAA  
CTTACAGTATCTGTTTCCACAATACTTGCACTCATATCAGTTACAACCG  
CTGGGTGTGTATTGGTTCAAAAGGACCTACCTACAAGGTTATATCAATCC  
ATTGTCCAATTTGAGAGATTCTTTCTGAATCCAGTTAAAAATAATTTTGG  
CTACACCTGGGGACACTTCCCAGGACAACAATGACTTGTAGTCTAGTGCC  
CAAGAAAAGCCAAAAAGGCCCGCAACCTTGGTTGCCACCAGATCCCCAAC  
AGACAGATTCTAAGGGAGAAGAGAGTTTATCAACTAACACTCACAGG

>Sequence 35

GGTATGTTGGNCANTTTAGAAGCCCTCTCCGCGGTGGCGGCCGAGGTACG  
GATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCCATCACACG

Table 2

CCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTG  
ACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTGGCAAATAC  
TCGTTCCAGTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCT  
CAAAAGGATGTAAAGCAGGATCATAGTTTCTTGAAGTCTCTGTAAGTCC  
AACTTGGTTTCGCGGACATAATTGTCCGGATTCCGGCTCAGCATCTTCAC  
CTTCATCTCGGTTGCTCTTC

>Sequence 36

CTAATTACTCTATCGATTTCTTATAACTCTCATATGATATATTTGTTTAT  
CTTATTATGCTTCAATTAGACGGTTTACTATACTTTTTATTCTACCAAC  
GTACTTCTCATTTACTACTATAANNTTATAATGANTTTTTTGGCGTCTTC  
GAATCCCCGTCGAGGTACATTTGTGTTTTATTGTGAAGGGTCTCAACTG  
TGTGGCTGATTCAGGCTGTCCCACTGCAATGTATGGAGAGGAGAGAAAG  
GGATGAAAGTGAAGGCAGGGGGGGGGATGTTTGTTCACGGGGTGAACCT  
CTGCCTGAGCAAGTTGATGTTGGCTTCCGAGGTATTTGGACACTTTCTTT  
CAATACATTTTTATTTAGCACTTATTCTGTGTCTGCTGCCCTGGGATACC  
AGAGTGAATAAACAGATTAAAGGTCCCTGCCCTTTTGGAGCCTACAGTC  
TTTTTGTAGAGAAAATTGAATTGATAAACCATACCTTTTTTTTTTTTGA  
ATTTTGGTGGGTTTTTTTTAAGGTTAGAACAAATGCTTAGGGTGGGAAAG  
GCCCCACAGAAAGGGTGAGGGGGAGTTACCTTTCCCGGTGCGGCCCT  
TTTCAGGGATTAACCCAGGAAATAAAACCTTGTTAGGCAAAAATGGCCCAT  
CAAAAAGGCCAAGGAACCGTTAAAAAGGCCCGTTTTTGTCCATTTTT  
TTCAATTAGGGTTTCGCCCCCTTTCCAGGGCTTCACAAAAATTCGCCC  
CTCTAAATTAAAGGTTGGGGATACCCCCAGGGCTTTTAATATTCCCAG  
GGTTTTCCCTT

>Sequence 37

GGAGCGTTGAACCCNTTTTAGTAGCGCTCTCCCGGGTGCGGCCGCCCGG  
GCAGGTACGCGGGGCAACATGGCGGCCCTTAGCAAGCTATAGCTGCGAGA  
TTTGAATTACTCCACTCGTAGCTATTGCATTCTGACGATGGCCTCTGTG  
GCTTCGTGCGATTCCGTCGAGCTCAGACGAGCTCCCTGGAGACCCCTC  
TTCACAAGAAGAAGATGAGGACTATGATTTTGAAGATCGGGTCAGCGACT  
CGGGTTCATATTCCTCAGCGAGTAGCGATTATGATGATCTTGAGCCTGAA  
TGGCTGGACAGTGTGCAGAAAAATGGAGAGCTGTTTTATTGGAATTGAG  
TGAGGATGAAGAAGAAAGCCTCCTTCCTGAGACACCAACTGTGAACCATG  
TCAGGTTCAGTAAAAATGAGATTATCATTGAAGATGACTACNNNNANAA  
NATTTTTAAAAAAGTACCT

>Sequence 38

TGAGCGTACGAGCCCTCTCTGGGGGCCGCCGAGGTAAGTTTTCTT  
CAGTTACAGCTACCATGTGAAAATAATTCTCTGCTTATCAAGTTTACAAC  
TTTGAATTTCTGTTTTAAAGTTTTCTCATTACTTATCACACAGTCAT  
CTTCTTTTGCCAAACGCTATAGTAGCACATTAAGGAGACTGATGTGA  
AATCAACTCTGTGCAAAAAGTATTGGGTGCTTTGGTAGAAGTCTATACAG  
AAGACACTGGAGACACAAAAATGAATTTTGTCCAGGTGAGTTGATGTCAG  
AAAAGGCTTAATAATGGAGATGAGGCCGGGCATGGTGGTTCACACCTGTA  
ATCCACCTGTTTGGGAGGCTGAGGCAGGTAGATCACTTGAGACCAGGAG  
TTTGAGACCAGCCAGCCAACATGGAGAATCCTGTCTCCACTTTTTAAAA  
AATAAAAAATATTNTGTTCTGCCCC

>Sequence 39

TGACGTTGATTTCAGAGCCCTCACCGCGGTGGCGGCCGCCGGGCTGGTAC  
GCGGAAAGCAAAACGACAAGCACGCCCTGAGCAGAGCCCCGGAATTCA  
ACCTTTAAGTGGA'IAACTTGGCTTCTGGTTTGCCAAGGAACCGGGCATC  
AAACAGATGAAACAGCCTATTGTCCATTTCAACAGGATTTTCAGGAGTG  
GGGATGATCTTTCAAATTATCCACAACCTTAATTATTTAATATTTGATAG  
TCAATTACCTAAGACACGGCATCGTCACTGACCAATCAGAAGAGATGCCA  
GTAGTTGGGCGCAGTGGCAGCACTTTGGGAGGCTGAGTGGACAGATCACC  
TGGGGTCAGGAGTTCGAGACCAGCCTGGCCTACATGGTGAAACCCCATCT  
CTACTAAAAATACAAAAATGAGCCAGGCATGGGGGGCACCTGTAATCCCA

Table 2

GCTACTTGACAGAGTGAGCCTCTGTCTCAAAAAAAAAAAAAAAAAAAAAA  
GTACCT

>Sequence 40

TGGGCGTTGACTGGATGCGCTCCCCGCGGTGGCGGCCGAGGTACAGTTTA  
GAAAACTGTGGGGCTGAGTCCTCGGGGCCGTGGGGCGCAGCGTGGCTGAT  
CACCATCATAACGGGCCCTATGGGGATACATTCTCTTAGACATTTTGAAGT  
AATTAATGCTCTCGTTAGTGATTAAGTCTGTGAAGTAGTCCTTTGCATAA  
TCAAATCCATGCTTTTCTTTGATGCCATTGCGACAAACAGTGTAATTATA  
GAAGCGAGAATTCTTGATTAATCCAAGCCATTCTCGCCACCCAGGGGGGA  
TGTAAGCTGCCATTATATTCATTGAGGTATTTTCAAAAAAGGCTGTTCTG  
TAGCCAGTGTGTTAAGATATACAGCAAAAGTCCGAGGCTCATGCATGGC  
CTGCCACGAGGGGGGAAGAGCAGTTCTCGTTGTTGGTGTAGACATTGTGAT  
TGTGCACATACTTCCCGGTGAGCATGGAGGACCGTGACGGGCAGCACATG  
GGTTGTAGTCACAAAGGCATTGATGAAAGTGCCCCCCCCATGTTCCATAA  
TCTTTCTCGTTTGTTCATGACTTGCAAGGACCCAGCTCCACATCTTGA  
TCATCGGTAAGCACAAGAATAATGTTGGGTCGGATGTTTTT

>Sequence 41

TGGAGTGCTAAGCNAANTTCAGAAGCGCTCTACCGCGGTGGCGGCCGCC  
CGGGCAGGTACACGTGCACATTGTGCAGGTTAGTTACATATGTATACATG  
AGCCATGCTGGTGCCTGTCACCATGGCACATGCATATCTATGTAACAAAC  
TTGCATGTTCTGCACATGTATCACAGAAGTTAAAGTGTAATAAAAAAAGA  
AAGAAAAACAGCATGCAATTCAGCCACACAAAAAAGAAGTCAAAGAC  
AGCGAGAATTCTTAAAAACAGCAATAAAAAAGTATAAAGTCACTCTAAAGGA  
ATCCCCGTTAGATTAACAACACATTTCTTAAGAGAAATCTAACAGGCCAG  
GAGAGAATGGGATGACATATTCAAAGTGTTAAAGGGGGGAAAAAATCC  
ACTCAAGACTACCCAGAAAAAGCTATCTTTCAGAAATGGAGATAAAAAAC  
ATCTTTCCAGACAAAGAAAACTAAGAGAATTTACTACCACTCACCAGC  
CTTACCAAAAAATGCCCAAGGGAGTCTACATCTAAAGCAAAACGACAAT  
CATCACGAAAAACATGCAAAAGCATAAACTAAGTGTACCT

>Sequence 42

TGGTCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCG  
GACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAA  
CTATGATCCTGCTTTACATCCTTTTGGAGTCCCACGAGAATATATAAGAG  
CTTTAAATGCTACCAAACTGGAACGAGTATTTGCAAAACCATTCCTTGCT  
TCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGA  
GAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTT  
GGAATCTAACTCAGCGGAATTGTATCCGTACCT

>Sequence 43

ATTGGAGCTCCCCGCGGTGGCGGCCCGGAGAGCAACCGAGATGAAGGTGA  
AGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGAC  
TTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGGAGT  
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTAT  
TTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAAT  
TGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTG  
TGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTA  
CCT

>Sequence 44

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTACTCTGGAAG  
CTGAGGTGGAAGGATTGCTTGAGCCCAGGAGTTGAGGCTGCAGTGAGCT  
ATGATCACAACACTGCACTCAAGCCTGGGCAACAGAGCAAGACCCTGACT  
GTAAAAAATTTTTTACATTAATTTTAAAAAGTGAGGTTTTTACCTGAT  
GATTGTGTAGGTTTCTCCTAGCTCCAAAGTATCCGGCTCCTACGACTCTA  
AATATAACCTTCAAGGAAAGTGAGCTGGTTTACTCTTTTCTGATAATAT  
CAAGCCATTCTGGCTGGGCGTGGTGGCTCATGCCTATAATCCCAGCACT  
TTGGGAGGCCCGCGTACCT

>Sequence 45

Table 2

CCGGGCAGGTACGCGGGAATTCAAGATGGATTAAAGATTTAAACGTTAGA  
CCTAAAAGCATAAAAACCTAGAAAGAAAATCTAGGCAATACCATTGAGGA  
CATAGGCATGGACAAAGACTTCATGACTAAAACACCAAAAGCAATGGCAC  
CAAAAGCCAAAATAGACAAATGGGATCTAACTAACTAAAGAAGGTTTTG  
CCCAGCAAAAGAAACCTACCTTCAGAGTGGACCGGGCAACCTTCCCGATT  
GGGGGAAAAATTTTTGGAAATTTGGCCCTTTTGAACAAAGGGGTTATTTT  
CCCCGAATTTTATAAAGGACTTTTAACCAATTTTCCAGAGG

>Sequence 46

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTCGGGAGATCGTGCCACTGCC  
CTCCAGCCTGAGAGAAAGAAACTCTGTCTCTAAAAAAGAAAGAAA  
GATGTCAGTGCTATTTATAGTAATACAAAAATTTAATGTAATTTTTGTCA  
AAATCTCAATGGTATATTTTTGCAGATTTTCAAATTATATATATATGAT  
TTATAAATTATTGTTATAGATTCTGGAAAGTTAATCCATCTCACCATT  
CATAATACCAATCTCTCTCGGCCGGGCGCAGTGGCTCACGCTGTAGTCT  
CAGCACTTTGGGAGTCCGAGGCGGGTGAATCATGAGGTCCAGAGATCGAG  
ACCATCTGGCCAACAAGGTGAAACCCCATCTCTACTAAAAATA

>Sequence 47

CACACACTCTTCTATTCTGCTCGCTCTATTCTCGTGTCTTGCACTACGT  
ATCTTCTTCTCTATGTTCTTCT

>Sequence 48

GACGTAGTCCTCTCCGCGGTGGCGGCCCGCCGAGGTACAAGGACATG  
CTGGATGCCAAGCAGTTCCCCCTACCGTCTCACTGCCCTCAAGACTTC  
AAGGCCACTCTCCCATAAACATCAGACTACAGATTTAGGTGGAAGAGCA  
GCCATGTTTGAAGGGCACATGTGATGAGTGGGGGGCAGCAAGATGCCATT  
TCTGCATCTCCAGAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTAT  
TCGTTGGGCTCCAGCAGTGCTTACCTTCTACAGCGTTCACTCATTTTGT  
TCTTTCCCCCAACTTTTTTTTTTTTGAACGGGGTCTTGGTTTGTCCC  
CAGGCTTGGAGTGCAGTGGACTTGGTCCTCTGCTTGATGGAACCCTCTGG  
CCTCCAGGTTTAAAGCGATTCTTCTTGCCTTAACCTTCCAGAGTAGC  
GTGGGAATTCCAGAATACGTGCGCAACCAATCCCCGGGTAAATTTTTAT  
ATTTTTAAGAGACCGGAATTCAACCATGGTGGGTTTAGGCTTGGTCTTG  
GAAACTCCTCACCTCAGGTGGAAGCCACATGACTCTGGCTCTCCAAAGT  
GCTTGCCATTACAGGCGTGAGCCACTAGGGCCTGACTTCCCTTTTCCTT  
TCCTGCCCCAGGCCGAACCATC

>Sequence 49

GCCCCTTGGGGGAAAAAGGCCAAAAAGTTGTTCTGGGGAAAAATTTTTT  
CCCTTCCACAATTCCAAAAAATTTAAACCGGGGAAAAAAGAAAAAAC  
CGGGTGGGCCCCAAGGGGGGCCACACCAAAATTTGTGGGGCGCCCC  
TCCCCCTTTTTAAAGGAAAAAAATCTGGCCCCCTTTAATTAATACAC  
CCCCCCCCCGGGGGGGGGGGGTTTAAATTTCCCTTTTTTTTTTCA  
TATATAAGGGG

>Sequence 50

GGTAGTTGCATACCGTGGGCGGCCGGAAGAGCAACCGAGATGAAGGTGAA  
GATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGA  
TACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGTC  
CCACGAGAATATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTATT  
TGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATT  
GCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTAC  
CT

>Sequence 51

TGCGCTATGATGCTCTCCGTGGGCGGCCGAGGTACCTCAGCATATATTGG  
AAGTGTTTTAGAGTTGGTGAGTTCCCCGTGCCTTCCAGAACTGAACGCTA  
GGAGGAGCAGCCAGTGAGGACAGACGTCTATGCAGAAACATGGGGAACCT  
CTGGAATGACACACTCTCGGGCACAGGGGGCCATTCTGTCATCTTGAG  
GTGACTAATCATGGAGATTCTCGCAGGGCCGGCTGCTATCTCAGATTTT

Table 2

CTAATCGGAGAAGGAGAGAGATCAACTTCCATCGACTCCAGTCTGTCGGG  
GGCTGATGAGTGAGGTGGCAGCAGGCATCCGCGTGGATTTGTTGAAACTG  
GACTTTTTATTGTGCTGAAAGCTGCTTGTGTGATGATCTCATACTTTGT  
AGTTGTTCTATCTGCAGCACTGACTTCCTAAGGGATTCTTCCAACCTAGA  
AATCTTTTCTTCTATGGAAGGCTTACAATCTTTTCTGTGTTTTCTTG  
AAATTCTAAAATTGGGAGGTTTTCTGGAGTACCTGCCCCGGCGGGCGC  
TCGAAAATAATCTCTCTGCTCCTATCTTAGGTTACTATTCCGGGGAGCCC  
TGGATACCCCTTTTTTCTTTCCCACTGGGCCCTT

>Sequence 52

TAGTTGATGCCNATCTTTNGANGCCNCCCCCGCGGTGGCGGCCGAGGTAC  
TTTTTTTTTTTTTTTTTTTTTGGCATTCTGAAAATTCATGAGGCTGTGTT  
TTAGGTGAGGCTATTTCTTCATTCCTGAACGGGGCACCAACAGGCTCT  
TAATCTGAAGACTTGGGCCCTTCTGAGTTCTAGAAAAGCATTTTTACTA  
GTTCTTCAGTAATTTCCCTCCCTTCATTCTCTGTTCTTTTCTCGG  
ACTCCAATTGGATCTTGGGCCCTCTAAGTATAGGCAAGATCATGTTTCTAA  
AAAGGTTCTTAGAGGGAGGGAGTTCCTGGGAGTGTTATGTGGGGTGGTGC  
AGAAGGTGCTAACAGGTGGGTTTTCTTTAGGATGAGCAGGTGGGATGCC  
AACTGTCAGGCTGGGACCTTTCCCTCCAGTGCTAAAATGAAAGTTTATT  
CTGGTCTTTGACATCCACACCAGAAGTCTTGACTTTCCCTTCCGCGGAC  
ATTATATATTTTATTTTATTTATCTATTATTTAATTCTTCTATTATCC  
TTTTCTATTCTATTTCTCTGGGGGAAGGGCCCCCTCGTTTATAAAC  
TGGGATTAATTGGTTCATAAGGAAAACCTATTTTTCT

>Sequence 53

CACTTACTGAATTATGCTTGAATTTATAAGTTATTACTCTATATTCAT  
TGATCTATATAATTTTATATTTTTTACACCAACCAAGATGTTTCTCT  
CGTTGGCGCGCAACGGGGCTGCCGAAGAGCGACCGAGATGAAGGTGAA  
GATGCTGAGCCGGAATCCGGACAATTATGTCGCGAAACCAAGTTGGA  
TACAGAGAGTTCCAGGAACTATGATCCTGCTTTACATCCTTTTGAGGTC  
CCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTAT  
TGCAAAACCATTCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATT  
GCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAAATGTATCCGTAC  
CT

>Sequence 54

ACTTATTACCTACATGTTACTTCTTATCTTTGTTCTAATATAGTATATG  
TTCGAAATATTATATCATATTTTTGATATTATTTATTAATAATTTATTA  
ATATTACTNNNNNTGGTGTGTTGACCAATTTGGAGCCCTTCACGCGGAGGC  
GGCCGAGGTACACTGGGAAAATGAAGAACTTAACATAAAAATAGAGG  
GACAGTCAAACTTCACAGGGGGGAAATCAAGTTAAATTCAGAGCTGGAT  
TTAGATGATGCCATTCTAGAGAAGTTTGCTTTCTCCAATGCTCTATGCCT  
TTCTGTAAAACCTGGCAATTTGGGAAGCATCACTGGATAAAATTTATTGAAT  
CTATTCACTCAATTCTGAGGCTTTAAAAGCTGGGAAGAAAGTGAAACTA  
TCTCATGAAGAAGTTATGCAGAAAATCGGTGAACCTTTGCTCTAAGGCA  
CCGTATAAACTTGAGTTCAGACTTCTGATTACTCCTGATTTCTACTGGG  
ACAGAGAAAACCTGGAAGGACTTTACGATAAAACGTGTCAATTCCTTAGC  
ATTGGCCGAAGAGTTAAGGTCATGAATGAAAACTTAAGCACTGCATGGA  
ACTAACAGATCTAATGCGGAATCACCTGAATGAGAAGAGGGCACTTCGCT  
TGGAGGGGAAGATTGTCAATCCTATTACCATAGAAGGAATGGTTGAGCTG  
GGACCAGTTTTTTTTGATCAGTGATACCAAGTGTACTGCAGAGATATTAA  
GTG

>Sequence 55

TCCTCCCTCCCTTCCTTTGTTACATCATTTATTTATACTCTTCTTGCT  
TCTTCTCTATTCTCATTACTCACGTTATCTCCTTCTATCGTTTCTTGTA  
AGTCGTTTATTTTNGACTNCNNNNNTNNTTGTGTTGACCTAGCTCCA  
CCGAGGCGGGCGGCCCGGGCAGGTACTTTGCAAAGTGGATGCAGCA

>Sequence 56

Table 2

TTTCGATTGAGACTCTCCGAGGCGCGGCCGGAAGAGCAACCGAGATGAAG  
GTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTT  
GGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTG  
AGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGA  
GTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGT  
CAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGG  
CGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATC  
CGTACCT

>Sequence 57

TTCTTCTCCTCGGTGCATATAATATTTTCCTTTTTTCTTACGGTCCGTGA  
GTCTATTTATTGTTTTTATCTTTTTGATCACTAATATTATTAANNNNNN  
NNTNNAATTCTTTGTCGCTGCACGCCGAGGCACCGATCACTCAGTTTGTG  
CAAAGGAGAAACGGCCACAGGGAATGGGCGGCGGCTTCACCTGGGGATAC  
CTGATGCCGTGTTTGTGGAAGATGTAGATTCCTTGATGAAACAGACTGGC  
AATGAGACTGCAGATACTGTATTAAGAAAGTGGATGAACAGTACCT

>Sequence 58

TAATTTTATCTATTCATATTATTGTTTTTACTCTGCTAATTTATATTTCT  
TTGTACATCATTATTTACTTTTTATCATATAATTTATTINNATTTCA  
ANNATTGTTTCTGTTTCATTGGAAGCCTCCACCGGGAGGCGGCCGCGG  
GGCAGGTACGCGGGCTATTGTGATTCCCAGTGACCCATAGAACAGGATT  
CACTAGTCTATGACATGTGACTGGGCTTGGGAAGTTCGGGTGTCAGGTC  
CAAAAATCCTAAGGTGGGATCTTCGCTTTGTGAAGCAAATTAATTACACA  
ACCAAATATTGCCACATTCTTGAGGTCTATTGACACAATGGGAACCTCAA  
CCCCTACTTAGCTTAGCATTTTTTTTTTCAAAGAGTGAAAAGTGGTCCAC  
GTAGAGCACAATATAAATTTAAGTAAAGGAAGATTAAAACATATTTTATC  
CATTTCTTATGGTGGGAAATTAACATGTTTTAGATTTGAGGTCCCCCTCT  
CAGGAAACCTTTCAACTTCGTATTATTCCTCCTGAGTAGTATGGGGTA  
GAAAATGAGTGGAAATCAGTTTGGCCACTATTTCCGAGTCTTTTGCACTG  
CAATACTTTCATCAATATTTACAATATTTAGTCTGTTTACAGATGGGG  
ATCACATCAGGCTCAACCAAGTTACAGAATTCTTTGGGTTTTTATCTGGA  
CCTTTTAATTAACCAAGTTTTTTTTTTTACAATATTCCTGTTTTTAA  
A

>Sequence 59

CACCGCTACACACTATTTTACTCGTAATAGTTTTTACTCATTTTCTTCAT  
GTTTTACTCCACACACAGACTCTTATTTCTTTATATATATTTAGATTG  
TTTTACTCTTTCTTATAGTTAATATNNANCCGGGGATTGGCATCCCCGCG  
GGGCGGCCGAGGGACGCGGGAAGATCAGTTGTTTTACCTTGGCATTCAA  
AGACTTTTCTTTGACTCCCATGGTTCTCAAAGCGTGATCCTGGTCCACCA  
CCATCAGCATGGGGGGGAACGTGTTAGCACTGCAAATTCTCATTCTCCC  
TAATTTTCTGAATCAGAAATTACGGAGGTGGAGCCCAGCAATCTGTTTTA  
ACCAAACCTCCACATAATTCTAATTAATTTATGCTTTGAGAACCGCTGAT  
CTAGTTTGTCCCTCTCATTTTGCAGGCAAAGAATTGAATTCTAGAGAGGT  
TAATTGACTTGTCCAGTCATACAGATAGGTTCTGTTTTCTATTATTTATT  
TATTTATTTATTTTATTTTATTCATTTACCCCCAGGATTCATAGTTT  
TCTTTCTAATACTCCATATTTGACTTGACTTTTTTACAAGTTGTAATTAC  
AAATAAGTCTAAGATGGGAAAGTTGTGGAAAACCTTTATAGAGAACATGAG  
ATTTGACTGAACAGTAAACATTAAGTAGAGAGGAAAGAAAGGGGTGTTCT  
AAGCAGTAGGGACACAGTGAATAAAGGTAGAGATAGGTATGTTTAAAAA  
AAA

>Sequence 60

GCACCGCACTAGGTGGGATGCTAGCCGGATCCGGACAATATGTCCGCGAA  
ACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGGGGGTGCTTTACA  
TCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAAC  
TGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGT  
GATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCT  
TTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGA

Table 2

ATTGTATCCGTACCT

&gt;Sequence 61

TGGACGAATTGTTNCCGACTCACCGCGGTGGCGGCCGAGGTACACGTTAC  
TGTTCGTCGTATTTTGTAGTCTCTGTTCTGCCCTTTGGAACATCTCTTC  
GGTGTTCCTGTGGGATCTCTCTACTGCATTCTACTTTATGTAATAATCTG  
TTCAATAAAATAATTTTAAAAGGAGACAACAACGCCGAGGTGATCTGGA  
GGCTCCTGGAGGACCTCAGCGACTCAGGTCCAGTCCAAGGAGGGCCGAG  
ATCAGGCTGAAGGATGGATCCACATGTTTAGAGGAGATCGAGAAATGCAG  
AAGAGAGATGCAGCAGAGAAATGCCACAGAAAGGGGAGCTGGAGAGAATC  
AAAGCATGAGAGGAATTCAACCTGCTGTCACTGGAAGGGGTCCAGATGGA  
ACGCTTGAGAAGAAACGTGTGTAGCATCTAGGAGTAAAGACTCGCCCTGG  
CTGACAGCTAGTAAGGAAATGGGAACCTCAGTGCTGCAGCCTCAAAGAAT  
TGACTTTAACCCACAGCCTGTGTGCACTTAGAAGCGGATGCATTCACAAA  
TCTTCCAA

&gt;Sequence 62

TGGGTCGTTGTCTTNTCCGCGGGGCGGCCGCCGAGGACAATGATGGC  
TGTCAACTTCGTTTGTTTAAAAAAGACAATTTGAGCAGGACGACCCTCT  
CCAACTCGGGTAGCATGGTTAGCCTGTGCAGTAACAACGTAGGCTCGGAG  
GATGGGTACCT

&gt;Sequence 63

TTACTAACACGATTGGATTATTTACTCTATGATTTTAATTATTGCATAT  
ATTTAATA

&gt;Sequence 64

GGGATCTTTTTGTCTTNGNCGGGGGCGGTCTTCCGNCNGACNCGGGGG  
GGCGNNGGGCNGGAGGAGAGGAGCGGCTTTAGNAGGGGGGCGCGGGCCNC  
CCCAGCAGANGNCNCAGCAGCAGNNGNNNCTTTGAGGCNCCANCNCCCA  
CAGCACCGANCAGNGGGNCCAGCNCCACCAGGGGACCCNNGGACCCGG  
GCGACGGCNGANCCAAACNCNGAAGGAGNCNNAACCTTTTTTCTCTTGTAG  
CGNNGNNGNCCNCCCGCGACCCCGNGCAAAGGAAGCCCAGCNGGAGGGG  
CGGNNGNANNGACGCCCACGGGGGNCACAAACAACNNNCAAAGGAAGAA  
NNNGCCACCCACCAANCNNNAGCAANACAANAGGAANCAANACAAACA  
NAACCGAAAAACGAGGAAAAAAAAAAAA

&gt;Sequence 65

TTGTGTGTTACGCGCCGAGGCGGCTGAGGGACTTTACTTTTTTTTTTTT  
TTTTTTTTGGAGGAGATGGACAGTGTCACTCTCTGATAAGGGGGTGATG  
GGTAGGTAATTTAAAAGCTTCTATTATAAAATCTAGTCTCTCTGACACTG  
CCCTGTCCACTGCAGTCACATCTCCAATACTGAAGGATCCTGAGAATAC  
GAGCGGGCATGACACTTACTCACGTCATTACCATNCTCGTTGTGCCTGC  
CCG

&gt;Sequence 66

CTGTTTGCTACACGCGGTGGCGGCTGCCCGGGCAGGACCGCGGAAATCCC  
CTAACTTCCTTGCTATCTTCCATCCCATATTTAGGTAGATAGAGAAGT  
GTGTATGTGTGTGTGTGTGTGTGTGCTCGCACAGTGATGAACTGTAAAC  
ATAAATGAAGATATGGAAAAATACATCAATTAGGACAACATGACAATTC  
ATTAGACTCCTATCAAAGAGTATCAGTTCACAGTTTTTATAGATACTAGT  
ATAAAATTCAGATCTTGACTGTTTTCTGGGGATAAAGCAAGGCTTTACAA  
TTTAGCAGTCTGTAGCTAGCTTGAAACAGTAAACAACAACAGCAGAGCC  
TTAAGTGTATTTTTGTGACCTAAACATGAACTCAGGGTTTCCAAATTCC  
TAACAATGAATAGTG

&gt;Sequence 67

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAAGGATAAGAAATT  
ACTGTGTCAAATTACCCACAAGTTAAATGCCCATGTTCCAGACCTGTGGC  
TCTTAGTATCAGGCTTGTGATAGAGAAAAAGGCTGCTATGAATTCTACTCA  
GTGTGCTTAGACCAAAGGAAACCACCACAGGGATTTCACAGGC

&gt;Sequence 68

GGGCGGGCGCTGACTTGGCGCTTGCATGCGGGAACTCGGGCGCTGCCAA

Table 2

GTGGATGAATGGATGGCGTCACGGCCCGGGGAGAGCCGGGGTGTGGAC  
GGGCCGCTGGTGGCGTTAGCTGGCTGACTGGCTCGGGTGGGCTGCAGGGG  
GCCGATGGCGGGTGGCGGAGTGAAGTCTGCCTCGAAAGCGGTAGCGCNGAG  
GCGCCCGGATGGGGGGGGGCGCGGGGTGGTCGGGGAACGATGCCCCAGN

>Sequence 69

GGTCCCATTTTCATCTTGCACCCGCATACCAGGGATTGTTGCGAAGAATCA  
GTTGTGTTATATTGTCCAAATCATCAAAGATACCTGAGGTAAATTACTT  
AGGTTATTATTGGACATATCCAGTCGATAGAGCTGCCTTAGATAAGAAAA  
AGCATTTGGGGGCACCCGATTGATGTGGTTATCTTGAAGATAAAGCTTCC  
TCAGGTTTGTGCCTGGAAGGTTTACTGGTGCAGCAGTCAGGGAATTCCGC  
ACCAGGGACAGCTCTGTCAAATTAAGTGGTTGAAGAAAACTTTGTCAAC  
TAAACCATGATTGTTCAACAGGTTTCCATCTAGAACCAGGCGTTTTAGAC  
TAGTGAGACCTTGAAGAGATGGTGATGAAATAGTGGATATGCGATTATCA  
TCCAAGCGTAGTTCTTCTATAGTCTGGGCAAACCCAGGGAATTGTGCT  
AAGGTGATTACGGGACAGGAAAAGCAGTCGGAGATAGTTGCTGTCTCGGA  
ATGCTCCCTCTTCTATGCTAACTGCAGAGACAGAGTTGTCATCTAAATGT  
AATTCTTCCAGATAGGGAATTTTGAAGTGAATCATAAGTGATAGTCCT  
TATGTTATTTTCTTGCAAATGTAAGTCTTTTACATACTTTTGGGAGGTTG  
GTAGGGAATTCATTN

>Sequence 70

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGAATAAAAGGCT  
TTGGTTTCTCTGATGTCTTCCAATCAATCACACAGAGCTTGCCCTGATAC  
TCAGCCACACAGTCCAGCAGACCTATATAGTTTAAAGGTTTCATGTTGAAC  
AGCACTTTCAAGAGCTCGCACTCCACTGACATCTTTCAGAATATGCTGGA  
CACTTTCAATGTAACCAAGACTTGAGGAGATTTTCATCTCTCTTTTAAAG  
GTTTCTGGGGTGAAAGTATGCTTTCCAAGGCTTCGTGGAACCGTTTCCC  
TTGTAAAAAGACGTTTGAAGTGATTCTTTAAAGCCATCTTCTCCCAGTT  
CCAGAATCATCCGCTGTTTCCACCTCTCCAACAAGAAAACCTGTTGTTT  
GTCATGGTCTGCTGAAGGACTCGGGTCACACTTGGTATCACATTCTTTG  
CAAGGGGATTTTCAAAGGAACTGAAGGATCACTTGCATTGTTGTTATCAC  
TTCTCTCTGGATTGAAGATAGGAAACCAGTTTGTGGCACTCGTCTGTCC  
TCACCTTGGTTTGGCAGCTTATGCTTGCTCACGGTTCCACAGAGCAAAGA  
TTTTTCTCCACCGATCCCGGGGTCTGGCCGACGCCTCTGGGTGACAAACA  
GACCTGACTAATTAGAGTTTTTCTTGCCCCCTTTN

>Sequence 71

AGGTACTTGAAGGATAAGAAATTACTGTGTCAAATTACCCACAAGTTAAA  
TGCCCATGTTCCAGACCTGTGGCTCTTAGTATCAGGCTTGTGATAGAGAA  
AAGGCTGCTATGAATTCTACTCAGTGTGCTTAGACCAAAGGAAACCACCA  
CAGGGATTTACAGGC

>Sequence 72

AGGTACATATATCATTTATTCAAGAGGCAGATTTTAAACGTTTTTGTAAA  
AAGCTAAATAACACCCAGAGTGAAGTCAAAAAATTTCTCAACTTTGCCAA  
GTGAATAGTAAGTCTAGAGTTTTTGGGTTTTTTTTTTG

>Sequence 73

GCGTTTGGAGCAACACCGCGGNGCGGCTGGNNGNTCTACCGCCCCGAAG  
CACACTNGCACAAAAGGGACTTTTNGATGGGTTATGCNNGCCCTCCNN  
GNCCAGCNGGACCANCNATTTTCTCTCTCTGAGNCTGCCTTTAAA  
AGCTCATAACAGTAGAGATCAGTTGTCTCTGGTTGCAAATCTAACATATA  
TTCATGCAATGGAGGNGNANCTTTTCTTTTTTGGTTTGGGNGCGCNA  
CGCGCCCNAGAAGAACNCACGCCCCAGNAACGGGGGCGGGCAGNACCNGC  
CCCGGGCGGCCCNCCAGAACCAAGGGGACCCCGGGCGGCAGGAAANCC  
AAAACCAAGCCCCAACGAAACCCGGGGACCCCGAAGGGGGGCCCCGGGAC  
CCAGCANNANGGGCCCCAGAAGGAGGGGGAA

>Sequence 74

NAATATGACTCACCGCGGTGGCGGCCGCGGGCAGGTACCTTGTGAGAA  
GAGGAAGAAGGTGATAAGAACTAAGATCAGAGCATAGTAGAGAAAGTAGC



Table 2

CCTGTAAACAGAGGAGAAGCAGAAAGAGAGAAGGGAGGACAGAGCTTTTA  
TTTTGCTCCAGGTAAAAAGAAAAAAGCACATTACAACCTCTATGTCA  
GTGTCTGTCCCAGGTCTAGAACTGGAATAGACCAACCAAGCCCAACCT  
TCTTAAAAGTAAGACTAGGTGCTTCTGATTATATATTCAACTGCCTGGA  
AGCATGCAAGTAAAAATTCCTTGATGGCATTCTAAAGTTCAAACATATT  
CTTCCTAAAAATGCATTTACAAAAAATATTAAGATTGTGTTTTTTGGTT  
TGGACTTTAAAAAAATTTGTTTTCAAACCATAATTGGGGCCTACCCAA  
AATGGATTCTCCTCCCTACAGTGGGGATTTCATTTTTCCAGTCCCCACCC  
GCTTTTTAATTTTTGATGACCTGCACCTGGTTGGGGGAGCCACTTGTGGG  
CCCTTAAAAACCAGCAATCCTTTTTGGCCCTGGCAGTGTCTAAAAAGG  
AAAGGAACAAGCCCTTTTGGGAAGGAAAGGGAGTTAAGCCCCGGAAGGA  
AATTTTGGCTTGATAAAAAAGGATAAAGGTGGGTTTGTGCCGGAATTA  
ATTTGGTTTTGGGTGGCCTCCCCACACACCC

&gt;Sequence 75

TAGGTAGCGACTCCCCGCCGTGGCGGCCGAGGTGCGCGGGGAGGCGTTGT  
GGGAGGAGGTGCGGGGAGAGAGGAAGGGGCCTGTGCACTGAGCAGGCATC  
AAACATTAGTGGATGGCCTTTCGTCTCAATCTGCAGTAAAGAGGAACTA  
ATCTGAAAGGGAACGATAGGACTGTGTGTCTTTTATTTTTTAAATACG  
GAGTGTGCAATTTTACTGAATCTTGAATCATGCCCAAAAGAATGAGCTGT  
CGGTGCTGCAGTCGTGACCCAGGCTGA

&gt;Sequence 76

GGTCTTGGCTGCCTGTGGGCTTCCCCAGGTGGCCTGGAGGTGGGCAAAGG  
GAAGTAACAGACACACGATGTTGTCAAGGATGGTTTTGGGACTAGAGGCT  
TATTGGGGGAGAGATCCCTGCAGAACCCACCAACCAGAACGTGGTTTGC  
CTGAGGCTGTAACTGAGAGAAAGATTCTGGGGCTGTCTTATGAAAATATA  
GACATTCTCACATAAGCCCAGTTCATCACCATTTCTCCTTTACCTTTA  
GTGCAGTTTTCTTTTACATTAGGCTGGTTGGTTCAAACCTTTTGGGAAG  
CACCGGACTGGTCAGTTTCTTTTGGGAAAGTGGGTCATCGCATTTCTGT  
CAAGGGCTTCTCCTCCTCTGGTCTTTTGGGAGAACCCGGGGCTTTTTCA  
CGGGGCTTTAGGGAACCTGGTCAGGCTGTTTTCAACCAGGAAG

&gt;Sequence 77

CAGGACGCGGGGAGACAGCAGAAGGATCACTGGGCTGGAAGCTCTAACAG  
GCATTGCCAGCCTAGCTACCTGCAGTTTGAGGCAAGGGCAGGGTCACTTA  
CCCTGTCTGTGAATGTCTCCTGGGACAACAGGAGGCTGCACTCACTGGC  
TGAGTTACAGACAGAAGAGGGATCATCGGACTGGAAGCTCTGGCAGGTATG  
GCTAGCCTGGTTACCCGTAGTGAGAATGGAGAGGGCCACCTGCCAGCTA  
CACAAATGTTTCCAGGACAACAGGAGGCTGTGTCCACTGACAGTTCAGA  
CCGAAGTGGAACCACTGGACCGGAAGCTCTAGCAAGTGTGCCCACCTGG  
CTTCTAGTGAGCCTTGAAACCAGCGAAACAATAATCAAAGAGCAGTTCTT  
GTCAAGAAAACCATTAATTAGGTACCCTGGCCGCTCTAAACTTATGG

&gt;Sequence 78

ATACCGAGGCCGGAAGGCAATATAAGATGTATAAAGCCCTCGGGGTTGC  
CCTAAATGGAGGTGTAAGCTAAACTTCAACATTTAATTTGCCGTTGCC  
GCCTTACCTGGCCCCGCCCTTTTCCAAGTTCGGGGAAAACCTTGGTTC  
GGTGGCCCAAACCTGCAATTTAATTGAAAATTCGNGGCCAAAACCTGCTCC  
CGGGGGAAGAAGGCCCGGTTTTTGGCGTATTTGGGGGCGCGCTTCTTCC  
CGTTTTCTTCGCTTCAACTTGAACCTTCGCTTGGCGTTCGGGTCCTTT  
TAGGCTTGGGGCCAACCCCGTATTCAAACCTAACTTCAA

&gt;Sequence 79

GAGGTACTTTGGCCTCTCTGGGATAGAAGTTATTCAAGCAGGCACACAACA  
GAGGCAGTTCAGATTTCAACTGGTTCATAGATGGGCGGGAGAATGAAAA  
CAGATGGTGCAGCCACAGTTTCGTTTGATCTCCACCTTGGTCCCTCCGCCG  
AAAGTGACCGATGTCCTTCATATTGTTTACAGTAATACACTGCAGA

&gt;Sequence 80

GAGATGCCGGGGTGCCGATATACTGTGCAGAGGTAAAGGATATAGTGGC  
TACGATTACGGCCTCTCT

Table 2

## &gt;Sequence 81

TAGATAGCTCCCGCGGTGGCGGCCGAGGTACAGCCAACCCCTAGGTGTG  
GACCAGCTGAGGCAGGTGGGCAGATATGCAGAGGGACTTGGGGCTTTGCC  
AAAGGGTAAGCACAAAGAAGGAGTCACGGGTTCTGTTTCGAGGCACTGTTG  
GGATTAGGAGCCCCGAGGGACCTACTTTGCAGGAACCTAGCATAACTTTGT  
GTGACGAGACTGCACAAGACAAAGCTCAGGCAAGTGGCTCAGTAGTTGGC  
CAGCCCAGCAGGGTCCTCTGTATGAGTGTGACCCAGCTGAAGAGAAGAA  
ATGGAGAGCAGCAATTGGAGCTTCAGGACCGGCTTGCCTGTGGCTCCAG  
GTTATACCACCACTGCCCCAAAGCAAAAGCTAGAGAAGCAAGTGGAGAAAT  
GCTGGAGAAAAGCTGCACCCCTACAGGCAACCAGCACTTTAAAAACCACTCC  
AGGCAAGTAATGGAAGGAAAAAGCCCTGCTTTTCAGTAACCTGGGCCT  
G

## &gt;Sequence 82

GACACCATACGTCTCTGTGTATGATCTCNCTAAGTCATATCGTGTAACGT  
GTACACTTACTCATTTCAGCATATATNTCAACGTCAACTTCTGTTTCTCTC  
AGGTTATTATTTTCATAACTACTTATATCTGTTTCACATCAGTAACATCGT  
CATATCTCTACTCTTTAGTGATCTATTGTATTCTAAGAGAGACTCCGG  
TGGCGGCCGAGTACCGCGGGGAGTCAGTCTCAGTCAGGACACAGCATGGA  
CATGAGGGTCCCCGCTCAGCTCCTGGGGCTCCTGCTACTCTGGCTCCGAG  
GTGCCAGATGTGACATCCAGATGACCCAGGCTCCATCCTTTCTGTCTTG  
CATATTGGAGGAAGACAGAAGTCACCCATTAACTTGGCCCCGAACAAGTTC  
AGAAGCATTTGCCAGGGTATTATGTAATTGGGTTTTCAACCAAAAAACC  
CAGGGGTATAAAGCCCCCTAAAGGCTACCTTGAATCTTATAGCTTGCCA  
TTTCCAGTTTTTGGCAAAAGGTTGGGGCGTTCCCCCAATTCTAAGGGTTTC  
AAGATGGGCCAAGATGGGATTCTGGGGGACAAGGATTTTTTTACCTTCT  
TAACCCAATACAAGGCAAGTTCCTGGCAAACCTCCTGGAAAAGAATCCTTT  
GCCAAAACCTTTTACCTACCTTGGCCCAAACAGGGAGTTTAAACAGTGTT  
TCCCCCTTTGGGAACCGGTTCCGGGCTCGCCTTTCTAAGAAAACTTAAG  
ATGGGAATCCCCCCCCGGGCTTTTGCAAGGGAAATTTCTGATTATTCAT  
AGGCCTTTAATTCGAATACCCCGGTCGGAACGCTTTGAGGGAGGGGGGGG  
CCCCCT

## &gt;Sequence 83

GATGAGTCGAGTGGCGGCCGAGGTTCCCTTGTTGCAGCTCTTTATTTCTTA  
GTCCCACTCCCCGAGGTAACACATTTCTGCTTTTTTAGCTGTTTCCCTCT  
AGTGTAGGTTACCTTTCTAATTTTTGATTCAATCACTTAACCACCGTTA  
CATACTACAAAATCACTATATTATGACCATGATTATATTTCTTTTCTT  
TTTCCCTTCATCAAGGAAGTTCATCAAAGAATTCATCAAAGTTCATGA  
TGACCTCTTTTTAAATTTTCTTAGTATTCTATGTAACCTATTACCGATCT  
TTTCCCCACACACTTCAAAAACCTTTTAATTATAATTTTTTACATAGCCC  
TTAGCACAAATAACCAATCCTTTTTTTTTTCCCAATAAAAAATGTGCCTTT  
CGTAACCTTTGTCTCTTTCTTTTACCTGGAATATTGCTTTTTAAGGCTG  
TTGTGCAACTTAGAACTTATTCTTATTATTCTGGGGTTTCTTTTCCCT  
TTTTTTTGTCTGGAATCCCTTTTGCCGGAACCT

## &gt;Sequence 84

CTCTCTTTTCTCTTCTACTAGTACATCATACTAGAGTATCTNTGTATTT  
TCACACTGATANGGTAAATCTGTAATAACATTATTCTTTATAATGATAAT  
AATCTAATTCATGATCAATTATCTATAGATCGAATCTATACTCTTACATC  
TCGACTCTACGATACTTTAATATAGAGATGACTCCGCGGTGGCGGCCGA  
TGTAATATGGCCTATATGGGATAGAAGGTATTTACCACGCACACAACAAA  
CGCAGTTCCATATTTTAACTGCTCATCATATGGCGGTAACATGGGGACAT  
ATGGTGCAACCACACTTTCATTTGATTTAACACCTTGGTAACCCCCGGCC  
GCTCCTAGAAACCTAATTGGATCCCCCCCCGGGCTGGCAGGAAATTCGAA  
TATTCAAAGCTTTATTTGATTACCCGTCGACCCCTTTGTAGGGGGTGGG  
GCTCCCGGGTAACCCCAAACCTTTTATGGTTTCCCTTTTAAAGTGGAAAG  
GGGGTTAAATTTGCCGCCGGCTTTGGGGCTGTAAATTCATGGGCTAC  
AATTAGACCTTGTTTTTCCCTTGGTGTGGAAAAAATTAGGTTTAATTT

Table 2

CCGGCTTCCAACAAAATTTCTCCACCACCAAAACCAATTAACGTAAGCCC  
CCTGCGGGAGGCCAATTAATAATGTTGTTAAAAAGACACTTGGGTGGGT  
GCCCCTAAAATTGGAGGTTGAAAGCCTTAAACCTTCAACAATTTAAATTT  
GGCGGTTTTTGGCGCCTCCAACCTTGGCCCCCGCCTTTTTTCCACAGTTC  
GGGAAAAACCTTGGTTCGTGGCCCCAGCCTGCCCATTTAAATTGAAATAC  
CCGGCT

>Sequence 85

TTGATGTGCTACCGCGGTGGCGGCGGGTACTTATATTACATTATGCTAA  
AATGCAAACATCTTATGCTAAATGTTATATTTGGGAACAAATTGTGTAAA  
TATACTGATGACGTCAATGGATCATTACAATTAATGTAGGTGCCGTGGGC  
AGGAAAGCTAACTTTAGCTGAAAGCATCTGAAACGTGCTTATTTTAAATG  
GGCCCTCAAAGGAAAGGGATGAGGCCAGCCATAAAGAAAGGCTTGGCCAA  
ATATAGTTCTTGTGTGCAAGAACAACAAATCCCATTTTCAACAGAACT  
AACCTGGCATGCCATTCTATCCTTAGGTTCTGGCGTGCAGTGAGCGAGGC  
AAGGATGGCATTCAAGATTTCAATTCCTTTGTTCCACGGGGAGGCCCTTT  
CTTTAACTTCTTGAAAGCAACATATTTGGCAACAACCTTCATTTTTTT  
TCCCCGGTGCCTTACTGTTTAAGCCCTTGGG

>Sequence 86

TGTGAGACTCCCGCGGTGGCGGCCGAGGTACATCCCTGTTTATCCCATTC  
CATCCACCGAGGCCAACAGCATGGATGATCTGTTTGACGGGAAGCCTCC  
CTGCTCCCGTGACAGCTATCTCACCAGCTGACACTTTACCATATCTGGCA  
ACAAACTGTTTGTCTCTTCTTGGATTTCAAATCCACAGCTTTTACCAG  
GGCCAGGGCCAGGCCTCCCCATGCAGAAGATCTTCATTGGCTGCATTCA  
CCACAGCATCAACAGCATGTGTGGTGAGGTCATCTTCCCACTGATAAC  
TCTATCCTAGGAGTCAGCATTTTTCTGAACACTTGCAGAGATTTGCTGTT  
GCCTTCCTGAACTGGAGAGACCAGGGTAGAGATACAGCCAAACTTATTCT  
GGAGGACTTCACACAGCTGACGCTCATTATTGTTTAAATTTTGAAGTCA  
TTGTGGTTAATGGGAAATTTGCCAACTATAGTTTTCTCCAAGAGCACCAA  
TCTCTGATTTTTTCATG

>Sequence 87

GTCTTCACTTTTACTTTGTTGCTATAAGTTTTTACTTACTTTTCATATTA  
TTGCGTTTATAATTTGTTTTATTGTAGTTTAACTTGCCTTGTACTTATT  
TATATTATTGTTATATTATAATAATCGACGCTTGACTACCGCGGTGGCG  
GCCGAGGTACTCTTCAAAATTGTCAAGGTCATGAAAGACAGCAAAAAGTG  
AAGAATTCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGAC  
TGGCTGGGCACGGTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGG  
GAAGGCCGAAGAGGACAGATCATCTTAGGTTTGGGAAGTTGGAAGACCGA  
GCCCTGTACCCAACGTGGAAGAAACCTCCCATTCCTCTACTTAAAAATAC  
CAGCAAAATTTAGTCTTGGGTGGTGGTTGGGTGCCATTGCCCTATTTAAAT  
CCCCAGCTTACCTTTGTGAAGGGGCCTCCGTGCAGGGAGTAATTCTACTT  
TGTAATCCGGGGGAGGGCAGAAGTGTTTGGTTGGGTGAGGCCCAAAAAT  
TTGCCGCCCATTTGCCACTTCCAAGCTCTGGGGCAAACAAAGAAGCGAAA  
TATTTTTGTCTCAAAATTAATAAATAGATTTTTTATTTAGGGGTAC  
CCTGTCCCCGGGGCGGGCCGTTTTTAAAAAACTAAGGGGTGATTCCCC  
CCGGGGCTTGAAATGGAAATTTTCGATTTT

>Sequence 88

TCCGACCGCTTTCAAGNTACAGAGGGTGGGCCGAAAAACCCCGACCAGGG  
ACCTTATTAAGAAATACCAAGGCCCGTTTTCCCTCTGGGGAAGCTTC  
NCCTCCGTTGCGCTCTTCCCTGTTTCCCGACGCTTGGCCGGCTTAACC  
CGGGATTACCTGTTCCCGCCCTTTTTCTTCCCTTTCCGGGAAAGGCGG  
TGGCCGCTTTTCTCAATAAGCTTAACGGCCTGGAAGGGTATTTCTCAA  
AGTTTCCGGGGGTAGGGGTCCGTTTCGGCTTCCCAAAGCTTGGGGCCTT  
GTGGTTGCCACCAAAACCCCCCGTTTTTAAACCCCAACCGCGGTGGG  
GCCCTTTATCCCGGGAAACC

>Sequence 89

CGGTCAGGTACCGCTCAGCCTGCTTGGTTGCATCCTCCGCATGGCGAGTC

Table 2

AGCTCTGAGATCTGAAGGTCAGCATGCTTACGCTCGGCCTCACATGTGTC  
AAAGTGATTCTGGATCTCCTTAAGTCGATCCAACATCTGCAGTTGCTGTT  
TTTCCCCATTCTCCAGTTCACGTGTAAATTCTCTACTTGTGATGCCAAA  
TGTGCTTTCTTCTTGTCTTTTCTTTCCATGCACCGTTTCACTTCTCTAA  
CTCAAATGCCATTGCGCTGAAGTTCAGCTGCACTCTCAAAACTGACATTT  
GCTTCTCCAGGTCCTGTTTTTCCGCTCAACCCCTTTCCTTAATCTTCAG  
ACCTCCCCCTTGGTCAACCTGATAAGTTTGAG

>Sequence 90

AGGTACGCGGGATCACAAAGCAGACAAACAGGAAAGACTGAACCATCTAT  
TTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTATCTGTAATC  
TCTCCATTCTGCCCTCTTGATTTTAATGCAGCTATAAAGGAGAGTATTTT  
AAAAGTGCTCCAGTAGGAAGAAGCAGTCACAAGGCACTGTTATATCAAT  
TCAGTGTGACACAAGCCCTGATTATTTAATAGTATAACAGCAGTGAATCA  
GAGTTCTTTCATCTGACTTTGCTGACATTTCCAGCAGCTGTATATTTAAT  
TCACAGTTAGGGGCTGAACAACTACAGCCATTGATCAGAATGTAAGCAG  
GCATCCTTGAGCTTCTTCTAGGAACATATACAGATGTGCACAAAATTTTC  
ATTTATTCAGTN

>Sequence 91

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGC  
AGACAAACAGGAAAGACTGAACCATCTATTTGAAAAAAGTGACTTCATTC  
AATTGGTTCAGCCACCCGTATCTGTAATCTCTCCATTCTGCCCTCTTGAT  
TTTAATGCAGCTATAAAGGAGAGTATTTTAAAGTGCCCTCCAGTAGGAA  
GAACAGTCACAAGGCACTGTTATATCAATTCAAGTGTGACACAAGCCCTGA  
TTATTTAATAGTATAACAGCAGTGAATCAGAGTTCTTTCATCTGACTTTG  
CTGACATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAA  
ACTACAGCCATTGATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAG  
GAACAAATACAGATGTGC

>Sequence 92

NGCGCTTAGGAGCANNACGNCGCGCGNGGCGGCCTGNCCGNNCNGTCGCAG  
CCCCANGAGGNCACCAAGCANCCANACCCCTACCGNGAGNNGTGAGGCA  
ANGGCCGCCAGGCAANGGCACANCAAAANCCGGTTTTTCNGCNNNGAGCAC  
NGNGCACCCGAGAAAACAAGGNCNCAACNACNGACNGGCCAAGAAGGGGC  
CCGCCCNNGGCCAACNNACCANACAGNNNAGAGCTTTTTTTTTTTTGGT  
TTGAGCACCGGGACTATCCTCTTGACTACAAAGTACCT

>Sequence 93

GCGATTGGAGCAACCCGCGGNGGCGGCCTGNCCGCCGCTACNNNAATCAN  
GGAANCNNNGCTNNNGNCCAGATGCTTTGNCGNTTCTTTAGACACAGNG  
GCTNNNGCAGNNAACCCNACGTTTAGAACNNGGGGGCAGACCCCGAACG  
NCNAGAACAGNGGACCCCGGGCGCAGGAANNCGAACAGCNAANCGANA  
CCGNCGACCNCGATTTTGTTTTTTGGCGGAGCNGNGNGCCCNCTCCCGA  
GGGAAAAAAGCGCGCTCNGGCGAAGG

>Sequence 94

TGCCCCGGGCAGACACAGCTCCATGAGGTACCAAGCATCCCATCACCCAT  
ACCGGCAGTTGCATGGCAATGGCTGCCAGGCAATGGCACATCAAAATCCG  
GGCAGCGTCTTGAGCACTGTGCAATTGAGTCAACAAGGTCTCAACTACTG  
ACTGGCTAAGATGGGGCCTGCCCTTGGCCAACCTTACCATAACAGTTTGA  
GCAATCTTTAAAGTGGCCTGAGCACCTGGACTATCATCTTGACTACAAAG  
TACCT

>Sequence 95

AGGTACCTGTATGATAACATTGCAGTCAAAATATCTTGTGACAGGACAG  
TTTTTTGTGGGGAGGAGAATTAGACCAAGTTCGGAGATATATTTTAGGAA  
CTAAAAGGAACGTAAGATCTGGGGTAGGGGGATGAGCAGCTCCACACCCT  
GCTCCTGTGTGAGCTGTGCGCTCCCGACTGGGAAATGTCTAACTCCATCG  
AAAACATGAGATGAGGGGCAGGGAAGGGGCTACTTCCAAGCCTTTCATTA  
TAATACTGTGTGTAACCTTTTGCATATTTTCAGAAAAGAAACCAGTAAGG  
TGGGTTCAAGTTGTGGGCTCATCCTGACTTAGAAAAATTTTAAATAATTTAG

Table 2

CCCATTGAAATGTTGATAATATAAGGCATGCATGAATAATAATTTTTGCT  
TCTTN

>Sequence 96

AGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCCGCTGCGACAAACA  
CCCCACAAAATGGCGGCAGCGCCGTCGCCCTAGAATCCCCCGAGTCGCCT  
CTCCCCGCGTACCT

>Sequence 97

GTATGTCGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGG  
AGCCCCCTTCAGAGGGCGAAGAGCAGTATCTTCAGAGGCCATCCAAGTT  
TTAGCATAACAAGGAGGGAAAGAGAATGCAGAGAAGAGGCTGGTGATAGA  
CAAGTTTCATGTTCACACTTGAATTGCAGAGGTCAAGAGTTTAAAGAGT  
TTGGGATGGAAAGAAATCGAGAATTGGGCT

>Sequence 98

GGTTCGATGGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGAT  
GGCTTCAAGATGATTTAGGACTTGGGTGAGTACACTTACTGATGTAGTG  
GTTTGATACACACTGATTACCTTCTTCTTTTATTCTCTGGCATTCT  
CCTATATAACTAGCCACTTTTAAACAATATTTGTGGCTCTTTCTTCTG  
CTTGCTGTAAATATTAGGGTTCCTGAGTCCTTACCTAGATTTTCTTCTC  
TTCTTACTCCTGGCCTTTCTTGGGAGAGTTCATAATTCACCTACTCCAT  
CTAGATATTTGTGATGTCCAAACACATCTCCACGTTAGGCTTCTATTTGT  
AGCATCAGACCCACACTTTCAACTGTCCACTAGATAGCCTCACTTGGATG  
CTCTGCAGGCCTAAATAACCTTTGCGGACAGATTAACAGGGAAAAAATAT  
TAATAGGAAAAAATATTAGATTTTATCTGATGTTAATATTTCTATGTGG  
CATGGAGGACTTCACAGANAAAAGTGAAAACCTCTAAAGCAGTTAGATTG  
AGN

>Sequence 99

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CTTCTTAGTATATACTAACATCTATTAGTCAAAATATATATATATAGAT  
TATACTAATTATCTAAACATCCNCANTAAAGAACAGTTTCCATTCTGA

>Sequence 100

GGCGAGGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTTAAATATGTTTAAATATGCATATCATCCAGGC  
AGCATAATGTTATATTTCAAAGACAGATTTATCCATTGAATTTGTTTT  
TAAAGTTGGGATTCTCTACATAGAACATATTTTCTGAAATTTCAAGAAT  
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TCAATCTATTCCATAATATAATCAATGATAAAGATTCACATGTATACCA  
AATTCGAGGCAGCTTAGTTGAAAAAATTTGAAACAGCTTACTGAATTCCA  
TTTGCTGATTCTGGGGGGGCTTCCCCAATGGCATGTGTGCTCCTTTGGAT  
GCCTGCAGGGGTGGTCACTGCAAAGTCGTCATCTGTGCCACTGGGAGTTG  
GGAGGCGGCCTGCTGGGGTTCCTGGGTGGCAGGATTTACACCTGCTCCT  
CCTGCTGGAAGGCTTCCATCCTGGACATCTGGATTAGCCCCTG

>Sequence 101

CTCTTCATTTACACTCTACTGTATTGTTACTATAATATACTTATATATCT  
TTTCAGTCTATAATTTGTATCTTATAAATTTTATTTCGTACTTTCTAC  
TCATTATTATATATATTACATATTAATATTTAATATTTTAGTTAGGAGCT  
CACGTGGTGGCGGCCGAGCCCAATTCTTGATTTCTTTCCATCCCCAACTC  
TTTAAACTCTTGACCTCTGCAATTCATGTTGTGAACATGAACTTGTCTA  
TCACCAGCCTCTTCTCTGCATTCTTTCCCTCCTTGTTATGCTAAACT  
TGTGATGGCCTCTGAAGATACTGCTCTTCACCCCTCTGAAGGGGGTCTCC  
TCAGGGGAAGGTACCT

>Sequence 102

TCGAGGTACCATAATAATGCAATTAACAAAATCCAGGATTTAAGGATTTT  
TATAAGATTAAAAAATGAGGTGGTGTGAGTGGGGAGAGAAAAAAG  
CAGGAAACAAAACCTGGTGAGAGGAAATGACCCCTGATGAAAGATCTTAA  
ACACCAGGCTGAAGATTTTAGATTTCTACCTATTAGAAATGAATATTCAC  
TGAGGTTTGATGAAGAGTCACTGAAGTGTACAAAGAAAAACAAGATTTGA

Table 2

GAAAGATTCTTGAGAACTCGTGATAGGAATGAACTGCAATAAGGGCAGA  
TTAGAGAAGAACTAGGCCATGAGGGCCTAGTATCCAGAATGAGGCAGAGG  
GAGGGACGCTGGATGTGAGCAGC

>Sequence 103

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GTTTAAAGCCTCACCCTGACCAGGAAGTCTTGATAGAGCCATCTAGTAA  
TTCTTAAAGTCTACCTCATCCAACCTTGTTTTGACTCCTGCAGTGAGCAC  
AGCTTGCCCTCACCTCCCCCTCTATGCCCTCACCTTTGCAGGAGACTC  
TCAATTTCTCAGTCCACATCAGCTCTCAGACCACCAAAGCAAGGGTTATT  
TTTTCTAAAAGACATTTGTTCCCAATGTTCTCTGACTAAAGTTCCTAC  
TTTGGGACATTTGCCCTTGGCACCTCAAGGGCCCTTCAAATACGGTTGAG  
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TGTAATTCGCGCCGGTGGAAGACCCCCCGCCCTCTTTTTTGGGGCTAT  
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TTCCCTTATAAATTTTCAGCGCGTGGACACACACTTTCTAAATCGCGCGC  
GGGGTGGGGCGGTCTATTTCTTCTCTCTCTCTTCTTGTGTGGGGGGC  
CG

>Sequence 104

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TGCATGCATTCTCAAGTCTGTATGACTCTACCAAGATACTGTGAAG

>Sequence 105

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TATATCATGTGCCCTAATGTGCTCCTAATATCATAAATGTTTACTTTCCG  
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TCATACTTGTTTTCAAGTTTCAACTTTGCTATTCAACTAGAATAATCTTG  
TGCAAAACCTGAGCTGATTTTCTCATCTATAAAATGGAAACAATACTTTC  
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TCAAGTTTTCTTCTTAGTTTCAAAATTTTAAAGGGAACCAAAAAATGTTT  
CATGGCCCAACTTTGCAGAAAAGGATTTTCTCAAAAAAGAAATTAAGG  
GGGGGTTTTTTATGGGACCAAAAGGCGTTGTGGCCAGTTTATGTAATT  
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>Sequence 106

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CTCTTTCCTGAGTTGTGTGAGGTGAGAGATTGTGAGAACTTGGCTTGCA  
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ATGTGGGGTGGTTTGATCTGCATGTGTCAATTTGTATCCACACAAGTTAAT  
TATTCTGCTTTTGTGTAGTACCTTGGTTGTGAAGCAGAAGCTACCAGGC  
GTCTATGTGCAGCCATCTTATCGCTCTGCATTAAGTAAGATGAGGATTCA  
CTCTTAATTTATGGGCACAATTTAGTTTCTTCCACACAAATTTAGGCCTT  
AACTCTTTATTTTTTCTACAGTGGGGGTTTGGAGTAATATTATACGG  
CATGGACTTTACCAAGATGGGGTATTTAAGTTTACAGTTTACATCCCTGA  
TACCTCTCCAGACCGTGACTGTCCAGTAGTTGGAGCACAGTCTGCTTAT  
TGTGGTCCACAG

>Sequence 107

TGTTTTTGTGGTCACCACGCGTCCGAAATAATTGCAGAGAAAGCTTGCCA  
ACGGTGATAAGTAGGTTTGTCTAGCAGCACTGATGCGTCGTGGAAGTTGA  
TGGTCATGAACATACAGTGTGATAACCTATCTGCCCTCTTGACCTTTTCT  
AGTAGTGCTATGTCAATTTGGTACTAAGGTAGGTGAATTTTCCAAGTGTT  
CTTGGAATAAAGGAAACATCAAGAATAATGTAAAAGCCTCATATACAATA  
ATGAATAATAAAGAATAATGTGAAGGCTTCATTCAAGGTTGGGGTTTGGC  
AGATACATTGCAACAAAATGACAGAGCAGCCAAGGTATTTAGGATAGTGG  
CCAAAGGATTGTAATGATGGCTTATGGAAGTGTGAGTGGATAAAGAGTG  
AAAATGAATAAAAACTAATGGATTGGTTCAAGTCAATAGCAGACGGCACA  
ATGGCCCATGGCCCGTTAGAATAGGGACCCAATTAAATGGAGACCAGTCA  
AGTGGGGGGGATCAT

Table 2

## &gt;Sequence 108

TAAATGTGCCACCCGTCGAATGGATTCTACATCAGGTGTCTGTGCCTCGC  
TGCTGAAGGATAACCCAGAGTGCAAGGTCATCTTTGTTGCTGAACAGGGC  
TGGACCTGTGCGCACTTAAGCACACTTAAAGGATTCTATTCTTCATTCAGG  
TCCCCAGAGAAATTGGCTCCTTATTTTCTTTACCTATTCCTAGACTTC  
CTTTTGTCTAGAGCCAGTTTTTGCAAAGGGCACTTTTATCCATCTCAGTTA  
TTCCCAGAGGTGACAGAATGAGTAAACCATATGGGGCAAATAGCATATAT  
GAGCTAAACCAGTTAACTGTTAACCAAGGCACATGGTCAATGCCTTAGTA  
TTTTTTTTTTTAATTCTTCTAACGGTATTTCTAGCTGTACATTCCCAA  
GGAATGGGTGGAAGCAAATCGATTCTGGAAGGGTCAATGGTCTTCCAGGT  
TAGGGAGAACCCAGTCCAAGGGCCGGGACCTTTTTTCTTGAAGTGCTG  
AAACCCGAGTTTTTC

## &gt;Sequence 109

GAAAAGATGTGGAGCTCCACGCGTCCGAGACACTTCTCTGACTAACCAT  
AGACTATGTGAAAAATGGTAGCTGGATTGCCTTTGGGTGGAGTCCTTGCC  
CTGTGGCATAGGAAACAAAGGAAAGGAGAGAGATGCCCTTTGAGATTAAT  
GAAAAATGCTCTCAGCCAAATAAAATCTAAAAATAGCCTCCTTGTGATACG  
AACGCGTGGCCCTAAGGGTCTAAAGAGAGAGCTAGGGGAGGTTCAAGCT  
GGCCACAGAGATGCTAAAGGTCAGGAGCAGACTTTTAGGGTTTGCTGTTT  
TATAGGTTTAAAGACCAGGTCTGTGTTTTGATAACTGAACTTGCTAATAG  
CTGGCCACTTGAGTTGCTTCTTCCAGCTCTTTGTTTGTTTAAATAAAGA  
GATTCAGCCAGTAATAATGGGAAGAGCTGCAAATGACTTCCCCAGTTGGG  
AGTGCCTGCTTGTGTTTTCTTCTGCCTGGGCATGCTGATGTGCAGGCCAC  
ACTCACAGACTTACACGTCTGAGGAGATAGCCC

## &gt;Sequence 110

TGTTTGCACGCCGTAATACACTCCTCTGTTTTTACAGTGCTGCCTGCACT  
GTGACTAAGACTTTCTGGACTATCATCATGTTTAGGAGTTGATGAGATTA  
TAGTTTCATGTAAGTGTATCATTAGATGACAACTCTACATCTTTAGGCAT  
GGAAACAAACATTTTTCTGGAAGAAAAAAGTGAACATCCAACCTCCA  
TTTAAACAAATTTGATTGTTTCTTTGCTATTAAGAACTCGGTGCTCTTT  
CTCCCACTCTATTATATTGTCAAATAACATCTGGAGACACTATATAAACT  
TTTTCTCCTTTAAATTACCTGGTTTATATATTATCTCCTGTAGCCTGCAT  
ATAGATAAAGGTTAAACATAGAGGATTTAGGTTGTTGGTAATTTAATAAA  
TATCTTCTTTTTACAAATCATATAATTTTTGTTGTTGATTTTTTAGAGAC  
AGGAGTCTTGCTATGTTGCCCAACTAGTTTGAATGCCTGGCTTTAAAG  
GGAATCTTTACCTTAGCTTTTTGAGTAGCCGGCCTACA

## &gt;Sequence 111

GTTTGAGGGCGACACGCGTCGCGGGATTGGACCGACGCAGCCATGGTAG  
GTCCAGATCCCGTAGAAGGGAGCGGGTCCCATAGGTTACGGCCGATTCC  
TGGAGCTTCTGGACTGAGGGCCGCGGTAAGCAGTGGTCTGGGCTCCCGC

## &gt;Sequence 112

GTAAGAGGGCGCGTGGCCGAGCGGTTTGCAATCGCCAGCTCGCGCAAGGCC  
ATGAGGTTGGTCTGGGTGAAGAACGCATCGATGGCGGCACGGGCCTGTTT  
CGGCACGTAGACCTTGCCGTACGCAGACGCTCCAGCAATTCGCGCGATG  
GCAGGTGATCAGCAGCAGCTCATCGGCTTCTGCAAGACCCAGTCAGGC  
AAGGTCTCGCGCACTTGACGCGCGGTGATGCCGCGCACCTGGTCTGTTGAG  
GCTTTCCAGATGCTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAG  
AGAGCAATTCCTGAATGTTTCCAGCGCTTTTCGTGGCGGCTGCCGGGG  
GCGTTGCTGTGGGCCAGTTCTGTCCACCAGCACCAGGTTGGGCTTGGCGGC  
GAGCAGGCCGCTAGGGCCATTTTCTTCAGCATCACACCGCGGTATTTGG  
AGCGCACAACCGGGTTTTGTGGCAGGCCGCTTACCAAGGCTTTCGGCTTG  
GCGCGGCCCTGGGTTTTACCAACCCCGG

## &gt;Sequence 113

GGAGATGTGCGCCACGATCGGGCGCGGCCAGCCGACTGGACCCCTTAGCCT  
CGAGGCCTTTGCTGAAGCTCATGTGAGGGGGCGACTGCCCTGACAGGTG  
TTGATTCCAGCTGCTGTGGCCCTGAAGGTGGGTGGTGGGAAGAACGGGA

Table 2

GAATGAAGCCAGCCTTGGGAGAGGTAGGACGCCAGCCCGGCCAGCTGCT  
TCCAGCATCTGGATCCAGCCTCACCTGAAGCCAGCCACCTTCTGGACTGC  
AAAGTCATTGTCAACACCGAAACACAGGGTTTCTGACCATTGCAACCCAG  
GGTCCCGGCGTGTCTGGCTGCAGACCCTGCAGACCCCTATGAAGATGGT  
CCTGCCTGCCTTGCATCGGGCCTCTAGCTAGGGACTGTGGTTGCAGACGT  
ATTTCTGGGACTGAGCCTCTGGTTAGAGGCCAGTGGTGAGGGAAGAGAGA  
CCATCAGAGAAAAGAGTGGAGCCTCGGGCTTGTTAGCAAATGGCAGAAAC  
CCGACCCTGCAAGAGGAAAACATTG

>Sequence 114

TGGAGATGTGGATTGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGAAG  
CAACTGTCACTAGTGAGATTACTGTGTATGGCCAATCCAGATAAATAAG  
ACGATCAAGTCTTTATGAAAAGGAAAGAAAAATTTGGAATGCACATCTCT  
GTCCAGCTCAATTCCTCACTCCTTTTTTAAGATGGAGAGCTGTTAGGTTT  
GTCTACACAGTAGGAAACACCTGATTAATAACAGCATGGAGCCAATCTT  
GACAAAGAAATTTGGCTGCATCCAATAGAATCCCAGGGCCGGTCGTGGTGG  
CTCATGCCTGTAATCCCAACACTTTG

>Sequence 115

TACGTATGACTCACCGCGGGCCGGAATCGTTGTACCAGACCAGGCCCCCA  
GGGCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACAG  
ATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGATCTCACTGGGGTTA  
GTTGGTTCGGAGGGGAAGCCCCATGGGTCCACCAGGATGAGGTGTTTAAAC  
TCTATCAGGGTACCT

>Sequence 116

GGTGATGATGAGCTCACCGCGGTGGCGGCCGGTAGCGCCGGTAGGCGGTG  
TGGACCAGGGGCTCGTCGGTGGCGGCCAGCGAATTGGTGACGACGCTGAT  
CTTCACGTTGCGCCCGCGGATCTCGCGCATCACCTCCAGCCCCGTGGCAC  
CCGGAATCAGGTAGGGCGAGACGATGGTCACTTCGGAACGCGCGCGGCGC  
ATCTGCTCGACCACGTTGTAGCGCACGCTGTCGACATCCAGCAGCGGCAC  
GCCGCCGTACGACGCGGTCTTGCCGATCACGCGGTGAGGCGAATCGGCAT  
ACGCCTCGGCGGTGGTCCAGATCAGGCCGAGCTTGCCGGCGTTTGAGGTC  
TTCGACCATCGGGCTGTAGCCGAGCAGGGTCGTTGGGCGCGGGGCTTCG  
CGGGGCCGNCGTTGGTGTGCGGGGCCCCGGGGCCGGCTTCAAAACCGCTT  
TTGCAAAATCTTGGCGCGGGCAAGGTTGGTTCGCCAACAACGACTGGGGAA  
TCGGGCCGCTCTTGAAACAGGGTGGGATC

>Sequence 117

GATGATGAGCTCACCGCGGTGGCGGCCGAGGTAATGAGCCACTC  
AGGACTGTCTTAAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAAC  
GTCAGTTGCTGGCTTTTCTAAATTTGTCTTCTACCTCAGATCTAAACCA  
TTTGATAACATTAGGGCAATATCATGGCAATCGTGGCCAGTAAACCAT  
AGCAAATGTTTTCTCCCTAGGACACTATCTGTTTTACAGGAAAAATTTT  
CTCATAGAAAACTGTAGGAAAAGCCATGGATGAGCTGAGAAGACCAAAAC  
CTATCTCTTGAAAAACAACAGTAGGGAGCGTGGATTAGAATGTCTTGGGT  
GCGTGAAACAGGCAGACAATCCTGAAACATCTTTCTGGGGACGTAAGGC  
ATGAAAAATTTCTATACACTTAGGAGGGCTTCTAGGAAAACAGGAAACGAC  
AAAAATGGAATGGGCTTCATTCAATTTTTTTTTAAACACATGCCTTACAG  
GTGAGGTTCTTGAGGGGCTTGAGAAGAACCAACCCCTTTCAGCT

>Sequence 118

TGTAGATGACTCACCGGGTGGCGGCCGAGGTACGCGGGGAACCGAGGCAG  
CAGCGGACGTGAGCGATAATGGCGGATATGGAGGATCTCTTCGGGAGCGA  
CGCCGACAGCGAAGCTGAGCGTAAAGATTCTGATTCTGGATCTGACTCAG  
ATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAA  
AGTGATCAGGATGAAAGAGGTGATTGAGGACAACCAAGTAATAAGGAACT  
GTTTGGAGATGACAGTGAGGACGAGGGAGCTTACATCATAGTGGTAGTG  
ATAATCACTCTGAAAGATCAGACAATAGATCAGAAGCTTCTGAGCGTTCT  
GACCATGAGGACAATGACCCCTCAAGATGTTAGATCAGCACAGTGGGATC  
AGAAGCCCCTAATGATGATGAAGACGAAGGTATTAGATCGGATGGAGGGA



Table 2

GCCATCATTGAGAACGGAAGGTTCTGAAAAGCACATTCAGATGATGAAAA  
GGGGGCAGAGAAATAAAA

>Sequence 119

TAAAGCGACCGCGGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACG  
GTCCCTGGCCAGTGAAAGGGTCTAATATAAACACACCGAGGCTGAAATA  
GCCGCTGCTTGTGAGACCTTCCTCAAGCTCAATGACTACCTGCAGATAGA  
AACCATCCAGGCTTTGGAAGAACTTGCTGCAAGAGAGAGGCTAATGAGGT  
GCTGTGCCATTGTGTATGTCTGCAGATTTCCCGAGGGTTGGGATGGGTTT  
ATCCTACAACGGACAAGATGAAGTGGACATTAAGAGCAGAGCAGCATACA  
ACGTAACCTTTGCTGAATTTTCATGGATCCTCAGAAAATGCCATACCTGAAA  
GAGGAACCTTATTTTGGCATGGGGAAAATGGCAGTGAGCTGGCATCATGA  
TGAAAATCTGGTGGACAGGTCAGCGGTGGCAGTGACCTGCCCGT

>Sequence 120

AGACTGACCGCGGTGGCGGCCGAGGTACCGAGCTACCAGGCTGTGGAATG  
AGACCGGGAGCTTTTTCGTGCTAAGATGCCGTTACGGAAACATCGCTGTC  
GTTTCAAGAGCTATGGGCATTGTTTACA

>Sequence 121

TGATTAGATGAGCTCACCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTT  
CCTTGGTGTAAGGCTTTAACAGTTCCACCTTTTCAGCTGCCTGGGCATTG  
ATTGCTCACCTACCACTATGACTAGATATGATTCCATGTGCTTTTGACTA  
GATTCCTTTGTCTCTTGTGTATGGAAAGTGAGACTTTAAGTAATAGTTACT  
GCTGAGAGAAATAGAAGACGTGACAACGTTTGCTTTCCCATTCAGTAGTC  
AGCGGTTGAATGGAATTATCTTCGTTTTTGGACTGACAGATTTGTTTTAC  
AATTCAGCTATTCCCAAGCCTTACTATTCAAAGCAGAACCCTTCTGTCTT  
CTTTCTGTAGTTGCTCTCTCTCCCTATATTCTGTTGTATTTTTTTCAAAT  
AACTTATTACTATCTCAAGTAAAATTGTTTTATGTTTTGTTTTATCTAC  
CCTCTTAATCAGGGCAGGGATATGTCTGTTGTATTTTACTTTTCCCAA  
ATCATAAAGTTTTTGGGAATCTGCTGGTTATTA

>Sequence 122

AGGTACACACTGGATCTCCTTACTCATTTTTTAACCCTGACTGGGACACCA  
GAGACATGCTGCATCTTGTATTAGGTGTTTCATCTTGCAGAATGGCTGTG  
CTCCTGAAATATTTTCTGTGAAGAAAATTGTTACAATCCCATTTACATCAC  
TGGCTTTTATTATTAAATTGAATGTTGGCTGGAAACAATTTTAACCCCAA  
ATTGTGACAAACAAAATATATGAAAAGGTCCCTGCCCG

>Sequence 123

GTTGATGCTCACCGGGTGGCGGCCGCCCGGGCAGGTACGCGGGTGTGCAA  
CTGCAAAACAGTAACCTGCTATGGCCAATTGTGAAGAGATGGGAGTCTCC  
CCGTATTGCCAGGCCGGTCTCAAACCTCTGGGCTCAAGCAATCTTCCCG  
CCCCACTTCCCGAAGCCCTAGGATTACGGGAGTGAGCCACCGCACCCAGC  
CAGAAAAACGTTTCAAATATTGGAAAACCTTACTTTTTTTCAATGAGCATT  
TTTGCATCAAGGGGTAACAGGGACATTAGGCTTTTTTTCTTTAGACTCC  
AAACAGTAAGGTGAGAATTTATCAAGACATTACATAGGAGTAAGGGCACA  
GCCAGGGGTGGTGGGNGGAAGGACATTTTCCAGCACTAATTAACAGGTT  
TTATGATTCACTAGGTTGGCCCACTACTGTTCTCACCTAATCCAGGC  
CAGCGTGTGAGGAGGCCAAATGACACTNTCCAGTGCAAGTGCTTGTAGTA  
TGAAGGGGGCAGAGATCACCTAGTGACCA

>Sequence 124

AGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCC

>Sequence 125

TTAGAGATGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACAGACTTT  
CATTCAACAAATATTTATGCATCAGCTACATGCCAGGATCTGTAATAGAT  
TCTGGGTGTGCAGTAGTGATTACTGCAGAATGCAGACATGGTCCCTGCAT  
TCTTGAGAGGGAGACAGCAACCAATAAACAATTACAAAAAAGTATGTAA  
CTAATTAACAAGTGGGAGAAGGGAGTGGGATTACACAGCAGAAGTGGAAG  
GAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTGAAGGTAACATGTAAGC  
TGAGACCTGAAGAAGGATGCAAAAGGGCCAGCATGTAAGGAACAGAGAAT

245  
Table 2

AAACATCCCAGAAATAGAAAATAACACACAAAAACCTAAAGTCATTAAAG  
AACATGATCATCTTTCAAGAACTAACCTTGAGATCAGAGTAGTTTGATT  
ATAGAGGAAAGGGGTGAGTGCAATGAAACGTTAAAAATAGCCAGATCAGG  
TAGAGCTCTCTAGCCTTTGGTAGAAAAAGG

>Sequence 126

TTATGATGATTGAGCTCCCCGCGGCCGGAAGAGCAACCGAGATGAAGGTG  
AAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGA  
CTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGG  
TCCCACGAGAAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTA  
TTTGCAAAACCATTTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAA  
TTGCTTGGCANAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGNNGCGT  
GTGATGGANNAGGTTANAATTTTGGAACTTACTTCAGTGGAATTTGTATT  
CCGACCCTCGGCCCGGTTTTAGACCTAGGGGGATCCCCCGGGCTTGAGGA  
AATTCGATTATAAGCTTAATGGATCCCCGCCACTTTAAGGGGGGGGCC  
CCCCCAATTTTTTTTTCTTTTAGGGAAGAAAAACCCCCGCGGAA  
AAAGGGAAAAATTTTTTCGGGGGAAAAATTTTCCCTCCAAATTTCCA  
AAAAAAAAAGGGG

>Sequence 127

ATATGGCTCACAGCTCGGCGGGCGGGTACTGAAAGTGAGGTGAAAAACA  
AGAAAGCTGAGAGAAATCAACATGTTCCAAGTGCTGTATGTGAACAATA  
AATCTGAGACATACCTTAAGGCTTTTCCAGAGACAAGAAAGCTCTCAAC  
CTGTAAAGAATTCTTGGGACATGACTGAGAGCAATGAGAACTCCAGGCAG  
AAGGTTAGCAGATATAGTGTAGAGCATACAGATATACTATAGTTCATA  
ACACTGGTGGCTTAGCTGTAAATCACAAATAGCACTGGAATTATACTAG  
TGATCATAGCACATAGTCCAAGAAGAAAAATTTTGATCTTGTTCTTAAA  
CTTTGTGGAGCCAGTGGTGAAATGAGTCACACAAAGATGCAACAATGNAT  
GAACCCAGCCCTCTTGAAGCTAACATATTCTTGCCCATCACCACCAATAT  
TACAAATAAAATCAAGACACATGAAGGAGCATACCTTTTTCTGAAAGAAA  
TATTGCTTACCTCAGTCTCTATGGNTATTTGATGCAAAACACCCAGCATG  
CAATTTGAATCAATAAGACATGGAAAGGGAGCAAAATGTAACATCATGCTA  
AAGAAAAAAGAGTGAGAAAGAGACAACAAAAGCAGATCCAGAAATGT  
TAAACTTGTGCATTATAAGGGAGGGAGCTTTAAATACAATATTNTAATT  
TAGAACATCTAGTGAAATGTGATCAGATTTATCAAGTAATGGAATTTGA  
ACAGAGACGTAAATGCTATATTTACAATNCATATTTTATATAAAAAAGAG  
TTGTTAAAAATAAAATTGTAAAAAACAATGTTTCAAAAAATAAGATTATGTN  
GATGGCTTACAGTTGAATAAT

>Sequence 128

GTGAAACAATGCTCATAGCTCTTGAAACGACAGCGATGTTTCCGTAACGG  
CATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTC  
GGTACCT

>Sequence 129

GAGACTCACCGGTGGCGGCCGCCCGGCAGGTACAGTCAAGGCCGAAAAAC  
CACTGAGCTTTTCCCTCTGCCTGGCACATATCCAAGTCCCTGCCTTCCTT  
CAGCTGATGAACCTTCATATGCCTCCTTTTGGGTGTGAGTGGAATGTC  
ACTTCTTCTAGAAGCTTCTCTGGCTCTCCAGCCTGGCCAGGGCTCCA  
GCTATGAGCTTCCATAACACCCCTAGTTTTCCTCACATTGCCCTCATAGT  
ATATGGAATTTGTTCAATTGCCTGGCTTCCAACAGATGCCAGCTCC  
AAGAAGGCAGGAGCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACA  
CCCAACCTAATGCCTGGGCCAGAGTAGGTGCTTAATAAAAAATTGTTTGA  
GGCCGGGCGTGGTGGCTACGGCTATAATCCCAGCACTTTGGGAGGCCAG  
GCAGGTTGGATCACGAGATCAGGAGATTGAGACCATCCTGGTTAACACAG  
TGAACCCCGTCTCTACTAAA

>Sequence 130

GAGACTACT

>Sequence 131

GACAGTGAGCTCACCGCGGTGGCGGCCGCCCGGCAGGTACCTATCTGCAG

Table 2

AACGGTCATTAGCAGTTTTTCCAAACAAGCGACTTTTAGCAAATTAACCG  
TTAATTTTAATGAGATTCAAAAGTTAATAGCCATTCTTAACGTTTTATAA  
TTAGAAGCTGTTATATAATTAGAGCTGGACACCCACATGGAGAACTAAT  
TTGACTGTGCTGCATTTGACTTCACTTTGGTAACAGGAAGCACTTTTAG  
TCTGTAGACCCTTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACT  
ATTATATACTTAGGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAA  
ACCTGGAGTGAGTTATTATTTCTGGTAATACAATTCTCTGCCAGCCAGT  
TGCTGCATCAAAACAGTTCTGATACACACCTAAAGTCAACACTTCCTC  
ATTCTGGTCCCAATAAACCTATAAGCCTCTCTCCTTGAGGTGACCTCT  
GCCCTGTGAAGGGTTGGCTCACCCCAAGATTCCATAAATAAGTTG

>Sequence 132

ATACGACTCCCGCGGTGGCGGCCGAAACCGTGGTGGCCGTGATCGTGCCG  
TTGGCGGACGGAACCTTGAAGATGTTCTGGCGGCCAGCACAATCGCCGC  
CTTGCCGACGATGACATTGTTGGCCTTCAGCCCGTCAATATCGCCCTGA  
TGTCGATGTTCTGGCTCTCCTCATCATGGCTCAGCGCAATGGCGGCGTTC  
GCCTTGCCGGTCCGCTCCACGAGGAACAGGGCTGCGGCCGTGACACATC  
GCTGGACGCGAGGGTCAGGTTGCCCTGAAGCAGCCCTTCTTGCTCTGGG  
TGACATCACCGCGCAGCCGCGTGCCGCCGGCAATGAACTGGATATTGCTC  
AGGCGTTTTTCGTCTTGTGTCAGGGCAAGTTCCGTGGCAAGATCGGCCCG  
CACGCCGTGAGGAACGCCAGACCGGATACCTTGCCGTCCGCGCGTCTT  
GACAGAAGTCCGTGAAGGAGAACGCGCCTTCTGAGCTTGCCCCGGA  
GTTTGCCATCCGGAACCCGGCATTGAG

>Sequence 133

GATATCGAGCTCCCGCGGGGTGGCGGCCGAGGTACGATAATTCATGCCA  
ATTTCTTTGGGAATACTTGTCTGATATAATAGGTTACAAAGCAAAAT  
GAGATGATTTTTAAATGCCATGCAGTTATTTTTCTGAATAACATAAAT  
TTAAACAGAGACCTGAAAAAACCCTAAAGTATTAACCTTTAAATACA  
TAAACTCAATAGAAATAATTTAACTGCCTTCTCTTACAAGAGGCAATCA  
GAAGGCAGGACTATAGTTTTCTGTGTTTCTTTCCACAGGAGAGATAATT  
ACATTTCTAGAGACCCATAGAAACAATTCCATAGTTTAAATTTCTCTCT  
CTATCTCTAAGGGTGTGTCCAGGTATCTAACAGCAATTATCTTACATTGC  
TGAATCAACAACAATGATATCACTGAAGAAATACAGGGAGACCCAAGCTT  
CCTTGGAATTGGCCCCCAAAATTTGGTGTAACATTTTAAAGGAATGGCT  
TAACTCTAAAGAAAGGGAATTTCTTTTTGAAAAAT

>Sequence 134

TAGAGATTGAGCTCCCGCGGTGGCGGCCGCCCAAGTGTTGGGATTACAGG  
CATGAGCCACCACGACCGGCCCTGGGATTCTATTGGATGCAGCCAATTC  
TTTGTCAAGATTGGCTCCATGCTGTTATTTAATCAGGTGTTTCTACTGT  
GTAGACAAACCTAACAGCTCTCCATCTTAAAAAGGAGTGAGGAATTGAG  
CTGGACAGAGATGTGCATTCCAAATTTTCTTTCCCTTTCATAAGACTT  
GATCGTCTATTATCTGGATTGGCCATACACAGTAATCTCACTAGCTGA  
CAGTTGCTTCCCGCGTACCT

>Sequence 135

GGAGAGAGGATGAGCTCCCGCGGTGGCGGCCGAGGTACCTCTCCTGCAG  
GGCCCTCCATTGAGGTCTTCTGGAAAACCCCTGGAGGAAGCGCTCCT  
GTTGCAGTCGGAGTGAACACCCGTCTTGTTTAACCACCAGCAGGGGGATT  
CCTTTCTGGAGAGTCCATGTAGTCATCATCTCTTTGACCTCTGCATTTTC  
CCCCAGAAAGGCGAGCATGTTACTTGTATCTTGGGATCCGAATGACAAA  
CTCCACCAGATGTAAATCACTTTCTAAACAATA

>Sequence 136

GACGTTGAGCTCCCGCGGTGGCGGCCGAGGTACTTAAAGTATATCAGGG  
CAGTTTCATGCCAGGGAGCCAGGGAAGGCACCCAAGGAAGTGATGGAAGA  
GTAGAAGTTCACCAGGTGCAGCTCAGGAAAGGGCTCAGCAAATTTCTCTG  
TAACAGGATGCAGACCCCGCGTCTGCCCCG

>Sequence 137

TGTTTGTGATTGACACGGGCGGCGGCCGAGGTACTAAATTTAGCAACTT

Table 2

TATTCATGAGGAACACCAGTCCAATGGTGGTGCTCTTGCTTCATGCTT  
ACATGGATGAACTCTCATTTTTGTCTCCAATGGAGATGGAGAGATTTTCT  
GAGGAGTTTCTTGCTTTGACATTCAGTGAAAATGAGAAAAATGCTGCTTA  
CTATGCTTTAGCAATAGTGCATGGAGCGGCTGCTTATCTCCAGACTTCT  
TGGACTACTTTGCTTTTAATTTCCCCAACACTCCAGTGAAAATGGAAAT  
CTGGGCAGGAAAGATTTTGAACCAACCCCTTTTAAAATTTTAACTAGG  
GGAAACGGGAATTTTGGGGGGGGCCCCACCCGGGGGTGCTTTTGGGGGA  
AAAAATTTTTTTTGGACAAAAAATAAATAAATGGTGGTTTTTCCCCC  
CCCTTTTTTTTTTTTAAAAAAACCCCTTTTTTAAAAATTTTTTTTTT  
TTTTGGCCCCCCCCGGGCCTCATTAATAAAAAACAACCCCGTCCCGT  
TATTATATATTTTTTTTTCCCCCCCC

>Sequence 138

GGTGAGTTGAGCTCACCGNGGTGGCGGCCGAGGTACTCGGGAGGCTGAGA  
CAGGACAATTGCTTGAACCTAGGAGGTAGAGGTTGCAGTAAGCCAAGATC  
GTGCTACTACACTCCAGCCTGGGTGACAGAGTAAGACTCCATCTCAAAA  
AAAAAGAAAAAAATGACTTTGGAACCTCAGATTACATATCAGTTTGCAT  
ACATGCTAAACAGAGAAATGTCCTCAAAATTCAGTTACTAAAAATTACTG  
ATATCTCCATGATTAGAACCACACTGTGGTTGTGTGTGTAGTCAAAGGAG  
GAGAATTTTTAATGCTATATAAGCATAACTGATAACTGCTATTACAAATA  
AATATTCCACAAATTTGAAAAGTTATTAGAGGAAGAATTTTTTTCCTTG  
TAATTTCCAGGTGTTTATATTAGTTGGGCCATAGTAAAAATTACATGGAG  
GAAAGAAAAATAGGAAAAATAAGTCACAGAAAAAGAAATCAAAACAAATAG  
GAACTTTGGGGAACAAGTGAGGTAATTTCTGCTCT

>Sequence 139

AGCCCAATTCCTTGATTTCTTTCCATCCCAAACCTCTTAACTCTTGACCT  
CTGCAATTCAAGTTGTGAACATGAAACTTGTCTATCACCAGCCTCTTCTC  
TGCATTCTCTTTCCCTCCTTGCTATGCTAAAACTTGGATGGCCTCTGAAG  
ATACTGCTCTTCACCCCTCTGAAGGGGGCTCCTCAAGGGAAGGTACCT

>Sequence 140

GAAAGTAGGGATTGAGCTCACCGCGGTGGCGGCCGCTGTGAAACAATGCT  
CATAGCTCTTGAAACGACAGCGATGTTTCCGTAACGGCATCTTAGCACGA  
AAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTCGGTACCT

>Sequence 141

TTTTGTGATAGAGCTCCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCT  
TTCCATCCCAAACCTTTTAACTCTTGACCTCTGCAATTCAAGTTGTGAA  
CATGAAACTTGTCTATCACCAGCCCCTTCTCTGCATTCTCTTTCCCCCT  
TGTTATGCTAAAACTTGGATGGCCTCTGAAGATACTGCTCTTCACCCCTC  
TGAAGGGGGCTCCTCAGGGGAAGGTACCT

>Sequence 142

CTGCCGGGCCCCATTTGATTTAAAAGAATTGGGCCCCCCCCGGGGAGGA  
GGGGGTTTTGTATTTGGGGGCTTTTCCCTTTTCAATTAAAAAAACC  
GGCCCCCGGGTTTTGGGGGTTGGGGGGGGGTTTTTTTTTTCTTAAGGG  
GGGGTTTTTTTTTTCTCCTATAAAGGGGGTGGGGCCAAAAAATAAAT  
TTTTCTAAACCCCCCTT

>Sequence 143

CCTTTTCCGTTTTTCTCTAAAAAGACCTTGGGCTCGGGGGATTGGGTG  
GGGGGGGGGGTTTTTTCTTTTAAAGGGGGGTTACCCGTTTTTCCCC  
AAATAGGGGGATCCCCCGAAAAAATTTTTTAAAAAAGCCCCA

>Sequence 144

GTGTGGCGTTGAGCTCCCGCGGTGGCGGCCGTTGCCCTTACATCTCTCA  
TTTGGAAGTGACAGGTATTAATAACGGCATATGAAAGCTTAAAGTCAT  
CAAATACAATCACTGGGTACTTTCGATTACCAAACAGGCACTTTCCTA  
AACTCCCCACTTCTTACTTCTGCGGTCTCCTTTCTTTTATCCCCCGG  
TACCTGCCCCG

>Sequence 145

GAACGATGGGATTGAGCTCCACCGCGGTGGCGGCCGAGGTACCGAGCTAC

Table 2

CAGGCTGTGGAATGAGACCGTGGAGCTTTTTCTGTGCTAAGATGCCGTTAC  
GGAAACATCGCTGTCGTTTCAAGAGCTATGAGCATTGTTTCACA

>Sequence 146

TGGACGACGGAATTGAGCTCCCCGCGGTGGCGGCCGTTCTGCTTAGCCAG  
TTTATTCTTTATTTTTTACTGGAGTCATTGCCAGTGATGGAAACGGTGT  
TTGCTTCTCTTTCAGTCAAGATCTGCACAAAGTATAGCATTAGGTGGTAT  
TTATTGTTTATATTATGAGTTCTACATTCATCTTCCAGCACTCTGAAGT  
TATCAGCAAGTTCTCAGTCAGTTCAAGGCATTGGATTCTGCTTGATTCT  
TTTTAATTCATTGTTTTTTGACCCCTTTGAGAGTTTAAATAGAGAGGAGTC  
TGGAAGGCAGAGATCTCCACCACCTAACCGTGAGAAATTTGAACTAAGG  
ACTTGCACTGGTCCCCAAGTTAACAGTGGATATACTTCTGCAATTTCTC  
TGGTCTTTCTTGCAATTGGGCAAAATGAATGAACGGGACCAGAAGGCCCTC  
ACCCCTTGTGGCATTTCGAAGTGGACAGGACTGGGACCCGGGATTGGTTA  
ATAAACCCGAAAAACGG

>Sequence 147

TGAGGATGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACCCAAGGTG  
GGCATTTTTTTAAAAAACCCATGGAAATAAATGCTACTTCTTGTTAGTGT  
TGTTTGAAAAATAAACAAAGAAAAATGCAACAAAAACAAAAACCATGGTCCA  
TTCAAGCTCAAGAGTATTTAACCAATGCTCTGTTGCCTCTTAAAGGATTG  
GTAGCTATTTCCCCATCTACAAATACATGACAATTAATAAGCCCAATTC  
TTAAAACTATCTGGAATTAGGTCAAAATTATCTAATTTTTTCTGATTT  
AATTATGGATTACGTAATCCAATAGTTGGCAACATTATAAAACCCTAAC  
TTACCTCATTTGTTTGGCTATACCAGGTCTCATGACTCTGGACATAACCAC  
CATCCTTNTCTCCCAACACCNCGCGTACTCAAAGTAAAAACCCGGAGCTTCA  
TGATAACCATGAGGCCCGCAGCTTCTGNCTCAAAGCTTTTCTGGCCTAAC  
TTCCGCTGCTTCTTCTCACTCGGCGTTTAAACTGGT

>Sequence 148

GGAGGACTCACGGGTGGCGGCCGAGGTACCTATGTGCGCGGTGGTAGAAA  
AGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAG  
AAAGAGGAGGCGCTGGACTTATCCTACCTTAAGTTGAAGCAGACCAGCAA  
TTGTTGTGACCTACAATCTCCACACCCATCTTTACTCTGAGCCAAGGAAG  
TGTCTGTTCTTGTGCTGAGTTTCAGGGGCCTTCAGCTTGCGGGAAATCCC  
GAAGATGGCCAAAGACAACCTGAACCTGTTGCTTCCAGGGCCTGCTGA  
TTCTTGGAATGTGATTATTGGTTGATGCGGCATTGCCCTGACTGCCGAG  
TGCATCTTCATTGTATNTGACCAACACAGGCTCTACCCACTGCTTTGAAG  
CCACCGACAACGATGACATCTATGGGGCTGCTTGGATCGGATAATTGGTG  
GGCATCTGGCTCTTCTGCTGGCCGGTCTAGGAATTGTAGCATATGGAATT  
CCACAGGAAATTCTCTGGCGAATTCATCTGAGGTTAT

>Sequence 149

TGCGTGTTGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTG  
AGGAGCCCCCTTCAGAGGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAA  
GTTTTAGCATAACAAGGAGGAAAGAGAATGCAGAGAAGAGGCTGGTGAT  
AGACAAGTTTCATGTTCACAACTTGAATTGCAGAGGTCAAGAGTTTAAAG  
AGTTTGGGATGGAAAGAAATCAAGAATTGGGCT

>Sequence 150

TTTGTGATTGAGCTCACCGGGTGGCGGCCGCTGTGAAACAATGCTCATA  
GCTCTTGAAACGACAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAA  
GCTCCACGGTCTCATTCACAGCCTGGTAGCTCGGTACCT

>Sequence 151

TGAGCTAGTGACTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTT  
TTTTTTTTTTTTTTGTTTTTTTCTGTCCCCTCTGAGCCATGGAA  
GATACTGGAGTTAAACAAAAATTTTATAAACTAAAGAAAGCAACTTTATAA  
TCTAAAAGAAAGCAACTTTCCCTCCTGTCTTTTGAATTCTTATTCCTGAA  
AGAATGGATAATGAATCAGGAGATGAGCAAAAAACGTATCTTTTACAAAGC  
TCTAGTCTTCCAAAAGCCTCTAAACTCAAACGAAACCTTTTTAAAGTAGT  
TTTGTAAGGCTCAAGGTATGCCATTTCAGAAAGTTGCAGATGAGCACC

Table 2

ATTGGCATTACCCAAATTCTGTACACATTGAGCAATGAAATTCAGGAAT  
TGGACAATGACCTCTTGGCATATGAAAGAATTTAAAGAGGGCTAGGGCTT  
GGGCAAGGGATCTAATCGNGAGGGGATGTTGCTTTCCGAGGCTTCCCTTC  
CTTCTTCTTTTCTGGCTTTCAGGTAAATGAAGAAA

>Sequence 152

GAGGGTCACCGGGGGCGGCGGGTCCACCTAAAAAGTCACTGCAGCAGAGA  
AGAAAACATTGGACAAAGAAGAAAGGCGACAGAAAGGCTAGAGAGAGGGCAG  
CAGAAATTGCTTGC GGAGTTTGCTTCACGACAGAAAGGCTTTATGGAAAC  
TGCAATGGATGTTGATTCTCCTGAGAATGATATTCCTATGGAGATCACCA  
CGGCAGAACCCAGGTTTCCGAGGCAGTATATGACTGTGTTATTTGTGGA  
CAGATGGCCCCCTCCTCTGAAGATCGACCTACTGGATTAGTTGTACCTGC  
CCG

>Sequence 153

CATGGCTCCCGCGGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGT  
CCTGTTGCCTCCTGCATTTTGGCCTCTGTTCTATAAAGGAAGAGTAAAGA  
TGGAGCTCCTCCTGCCTCCATCACGAAAGCACATATCATCTGTCCCTTGT  
GATTTTACTTCCAGGACGCGTGTCTGTCCTCCAGCGTGTGTTGCCCTTATGGT  
GCCGGCAGAGCCTCAGCTATCTGCCTGGGAAGTCGGATGTCCTTGGAGAG  
AATTTGGAATGCAGATAATTTTCTTATTTCTTGAGAGCTTACTTTAATC  
AGCATGACACTACCTAAACACTGAAGATGGCCTTATATTAGTAAGATTG  
CACAAATTAAGTATACCTATGCAAACTATTACTTTGGTTTTTAGGAGTT  
TGGTCAGATGAAGAAGTAATGGGATCACATATATGTAAGAAGACAACC  
ATCATTATTTTGTAAAGTGTTTTATTTAAACCAACTGGTTAACTTGTGAA  
ACACAAATAGAAGTCGTATTATTAAGGTCC

>Sequence 154

TTTTGCGTTGAGCTCCACCGCGGTGGCGTCCGGCCCCCGCCTTTTCTGCG  
GCTTTTCAGCGCGCGTTTCAGGTTCGTCATGAGGTTCGTCGGCATCTTCGAG  
ACCGATGGACAGGCGGATCGTGCCCTGGCTGATGCCTGCGCCCCGCCAGCG  
CTTCGTCGCTCATGCGGAAATGCGTGGTGCTGGCCGGGTGGATCACCAGG  
CTGCGGCAATCGCCACG

>Sequence 155

TATAGCGGACTCACCGGGTGGCGGCCGCCCGGCAGGTTTAAAAAGAACAT  
GTATAAACGCTTAGCAAACCCCTTTTAAATGTTCTGAAGTCAGTCTTTGTA  
AGTGAATTCGCTGGAGACTAGAAAGTATGAAATGGCAGTCTACCTGGGCA  
ACCTACAAAAAATTTAGCTTGAAAAGACTTCAGTCTCCGCTCCCCTGTTG  
ATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGAAAATTATTTA  
GGAAAGTTTGTTAACTACTCTTTGTTGATCTCATGGAGTGGGGAATGGGA  
ATTGAACCAGAACTGGAAAATTATTTGGGAAAGTTTATTAATACTACTCTT  
CTGCTGAGTAAATTTAAATGTGTTCTGGACATTGTTGAGGTCTAGAATTG  
TCTATACAATGCCCTGTACCT

>Sequence 156

TTCGAGAGCTCCACCGGGCTGGCGGTGCGCCGCTCTGGTGCTTGCATCT  
TGGCTTCCTATAGCTTTCTTTTTTACAGAGGCCATGAAATGCAATCCAGC  
TGAAGTATTATCATCTTGTAGCATTTCAAAGGAACGTCGAAGTCATCCA  
AAGGATGGGAACCACAATGTTCTTGTGTTCTTGGGTTTCTTAATGATT  
TCTGAATCATCATTATTAATTATGGAATTCTCTGGTCGAAAAGTCACATT  
TGGTTTTCTCCTCAGTTTCTCACATCTTTTTTCTTGCAGCTCTTCTCAG  
CTCTTCTTCTTGCCTTTTTTACTGTCTTCTTCTTGTCTTACTTCAGGT  
GGTTCATTTTGACCTTTAAAGTTGAAGGGTGTTCACATCACCTGTT  
CAAAATAATTAATGTGTTAGTTTCTGTTGCCCTTTGTTTAAACGCATTGAG  
GTTTAAAGTTGGATAAGTTGGGTTTTTGCACCTATTTCTGGGGCCAATG  
T

>Sequence 157

GTAGAGGGTACCGGGGGCGGCCGAGAAATGTCGCCAACTGCCGTCTTCC  
CTCCTCGGCCGCTGCGACAAACACCCACAAAATGGCGGCAGCGCCGTCG  
CCCTAGAATCCCCGAGTCGCCTCTCCCCGCGTACCT

Table 2

## &gt;Sequence 158

TTTGCGGGCTCCCCCGGTGGCGGCCGACTCGCTGACCAGACCAGGCCCCC  
AGGGCCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACA  
GATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGATCTCACTGGGGCT  
AGTTGGTCGGATGGGAAAGCCCCATGGGTCCACCAGGATGAGGTGTTTAA  
CTCTATCAGGGTACCTTGC

## &gt;Sequence 699

TGGGGATGGCCTCTCTGTGGGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTGTAGTGTCTTCTGATGTCTTTTCTAACAAATCTTGCCTG  
CCCAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTGTAGCTTTAGCT  
TTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTGGGGGG  
CAGAGTCCATGTTGCCCAAACCTGGTCTGGAACCAACACACCCAGCTAATT  
TTTGTGAATTGCGGGTACCAGCACACCGGCGCCGCTCTGGACTGCGCCTT  
CTACGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAAA  
TGCATGATTTGAACACTGATCAAGAAAACTTGTGGGACCCATGATGCC  
CCTACAGATGTGTGAATACTGTCCAGAAGTGAATATGATGGTCACTGG  
AAGTTGGGATCAGACAGTTAACTGTGGGATCCCAGAACTCCTTGTAAATG  
CTGGGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGGA  
GACCGGCTGATTGTGGGAACAGCAAGCCCGATAGTGTGGTGTGGGACTT  
ACGGAACATGTGTTACGTGCAACAGCGCACGGAGN

## &gt;Sequence 848

GGTACTGGTGTATGCTTGTGCCTGTGTGAAATTCTACAGTGCTGAAAA  
CTCATGCACTCTAGCTATGAATGCAGGTCTACTTGAAGCAAACTCTTCA  
ATCTAATTGTTTTCTCAATCTTTGTAAACCAGTTTAAAGAGTCACCAGAA  
ATCTGTAGTTTAAAGGCACCAGATACATTTCTTGGCTGAGCCTTGTAGGAC  
CAATATGCTGGACCAATTCGGTAAAAATACACCATAAATTATGACTGCTTT  
ATCTGAATGCATGGGACACTTGCTACGATGGCGGGAATTATTACCAGGAG  
TTTAGGAGCCAGACATGGGTTCTGTATTTTTCATACATTGGTGATCAATT  
CAAACTCTTTTCCTTTGCAGCCAGGTTTGGTCAGTCTGGCCAGGAGTGC  
AGATTATGACAAAAAACAAGCTAAAAGACCTGAGCCATTAAGGTTACAG  
TCTCAATACCACCGAGTTAAACAACCTATTTAAATGCAAGACTATTGATT  
GGAATGATCCCGCGTACCTGCCCCGGCGGCAAGGG

## &gt;Sequence 849

GGTCGGCCGAGGTACAAAAGTTCTGAAATAACACTATAGGCTTAAGGAAT  
AAGGGACCAGAAATAGCCTGGAGCCAGGTATTTCTGGCTTTATACATTCTT  
TAGGAAAAAATACTTTATAGATGTATTTAAGTAGAATTAAGGTTTACAC  
AAATGATTTTTTGAGAGAGAGAGTCCCTAGGACCTAAACATTCGTTCTAC  
GGAGATAGGGTCAACACGCAGATATTTATTTAGCAGCATGGTCTGCAGAA  
GTAGGAGGAGGTGACCAGATGTGATGGATTATGCCTGTAATTCAGCATT  
TTGGGAGGCTGAGGTAGAAAGATTACTTGAGCCCAGGAGTGTGAGACCAG  
CCTGGACAAAATAACAAGACATCATCTCTCAAAAAAATAAAAAAATTAGC  
GAGGT

## &gt;Sequence 850

GGTACCACCTAACAAATTGGAGGAAATGAAAAGACGAATCAACAACATTT  
TGGAGAAAAAATTTATTCTACTTCTAGAATTTTATTACTACANAGTGCTT  
ACGTTCTTGGTTTGGTAGATGAAGTGAAATCAAAATTGGATATTTGGAAC  
ATTAATATGGGAGCAGAGAACTGTGGAATTAATTGCTGGAAGACTGGCA  
TAAATTTATTGAAGAAAAAGAATTCCTAGCTCGACTTGATACTTCTTTT  
AAAAATGTGGAGAAATTTATAAGAATTTGGCTGGAGAATGTCAGAATATT  
AATAACAGTATATGATGGTGAAATCTGATGTTTGTATGTATAGAAAAAA  
TATATATAATGTGAAGTCCACTCTACAAAAAGTGCTGGCATGTTGGGCTA  
CTTATGTGGAAAACCTTCGCTTACTAAAGGCTTGCTTTGAGGAGACAATA  
GAGGAAGAAATTAAGAGGT

## &gt;Sequence 851

ACCTATATTCTATGCAAAATTTATAAAATAATCCTTGAACATGAAAACCTC  
ATCTTAAAAATTACACGAATTAAGTAAGCATGCAATACAGACACTTGCAGG

Table 2

ATGCCTGGCCTCTGGGAAGTCTCCTGTCTCTGTGTGAATGTAGAAGTGA  
GGCTCAAACCTCTCTCTTAGGAAAAATTTCCCTTCCCACTGCCCATCCATT  
TCTGCTGACTCAACAATTTCCACAGAGGAAATGGGAATAGTATCATCAAC  
TAGCAGTCTCCCATGCCAACAGATTTGGGGTCTTATCTAAGTGTCTCT  
GCAGCCGGTCTTCCCTTCTGACTTCCCGTATTGGCTCGTTAAAAATGATT  
AGCTGGCAATACAGGTATGTTTGGACTGCTATTGGTGGTGAGTTTAATCT  
TCTAACTGTGTTTTGTGAAAGGAAATATCCCTAAAAGCTTTGGTGTAC  
TTAAAAAAAACAACTATATATGATTGAAAGAAATTTGAGATATTTTGT  
TTCAACAAAAACCACTGAGTTTATGTCTAAGAAGAAAATTCAATAAGCAT  
TTATCAAGTGCTTAGGATATGCTGCAATGTATGTACCTCGGGCGCGACCA  
CGCTAAGGG

>Sequence 852

GGTACTAGCAGATGATGGCACAGTGACAGCTGGGAGGGATGGGATGTGCT  
TGCTTCATGTCCCCCTCCCTCTGCCTGCCTCAACCTACACAGTCCTGTCT  
GGTGACGTGCCAAAGTCCTTCCTGCCTTGACAGAGAGGCCCTCTCTTCGTCG  
AACATGGGCCTCAGGAAAGACAGCCTGAATGCCACTACCCAGGCTTG  
GAAGGTTCTGCATCAGTGTGGCATTGTTGCGATAGCCCTCAGTTGATGCT  
TGTTTGTGGTGTGGGAGGCAGGAACTACTTTAGGAGGGTGGAGGGGTGA  
GAATGAGAGAGGACTTGCCCTGAGCCACCCAGCTGTGGTCACTGATGGC  
CCGGATGGCTACATAAATCCTGGGAGATCCGTTGTCTCATAACCAGAGT  
GAGCTGGGCTCCAGACCAGCCCTATGGGAAGATCCTGTCTGTGGGAAGCC  
TTTGGCCACGTGTTTGTCAAACCTCCGAGACCCTTGACCTTTGCCTGTTACCA  
GAAAGGGGCCATAGCCAGAACCCTTTAATATCACCTGGCTTCCTGCTT  
TCCAAAAGACTGTAAAATTAATAGTGCTGAGGAAGGCCAAATGACGGGGG  
TGGTTTGACCTTGCCCTGCTTTCTGGCTTGGGGAAGAATAATGGCAGGGA  
CCCTTTTAGGGGTTGCAATGGCTCGCTGGAGGGGCACCCACCCGTTGG

>Sequence 853

CCCTTAGCGTGGTTCGGGCGGAGGTACGCACATACATACACTAACGCTC  
AGCATAAACTTTCCATTACACTTAGACAATGACTTGTGGAGGAAAAACAA  
GGATAAACAAAGAGTCTCAAGAACTTAAGAAAAACATCAGAGTTGATTATT  
TAGCACTTTCTCAGGATTCTAAGGCAATAAGCCTAATTCAAAACGTGAAA  
TTGTTCTCTATTTCCTATTAGTCATTAAATGAGATAAATGACAAGCTATT  
GCTGCTTCTCCATTCTGTTTTCAAAGAACATTACAAAAATAAACCAAGTGT  
GTTCTCTAACAGTTCTAAAAACAGTTTGAT

>Sequence 854

GGTACCAGAAGCAAGGCAGTTTAGGGACAAAGGGCATGAGCTTAGAGTCA  
GATTTCTAGGTTTCAGATCCAAGCATCACTACTTATTTCTTTAAGAACT  
TGGGCATCTGTAAACCAGGGATAATATCTTCTTCAAAGGGCTTGTGTGAA  
GATTCAACAAGGTAATACATATAAACGTACAGATCAGTAGACCAGCCAA  
GAGTTAAAGGCCTCCGGTTGATCATTTCGAGAGGCGGCAACGCATTACAAA  
GTGGTGGATAAGGGACCCCGTTGGAGAGGTCTTTAAACCTGTTTAACAGG  
ACACTGGG

>Sequence 855

GGTACCTGGGACTACCCACCACCATGCCCGGCTCATTTTTGTATTTTAG  
TAGAGACAGGGTTTCACCATGTTGGCCAGGCTAGTCTCAAACCTCCTGACC  
TCAAGTGATCCACCTGCCTTGGCCTTCCAAAGTGCTGGGATTATAGGTAT  
GAGCCACCGCACCCAGCCTTCAATTTTTTTTAAATCTGATAGAGCACCA  
TCTACTACATGCTTAATATTATCCATAAACAGACATGTCTGAGCACAGAA  
GATCATGTTAATGAAAGATTATTGAAAGGT

>Sequence 856

ACAGAAAAAGCATAATGAATACAACAAGTAGCATCAAACCTCAGTGTATA  
TAAGAATGGCTAAGTGACCATTAGTCATGTGAAAAGCTTAACAACCTATTA  
AGCTCTTATTTCTTACTAAAAACAATTTTAAGTTCTTTCAAGGCTATA  
GTTACGCTTACATAAGAGGGCCCTATTACCCACTAATTCCTTAAATTTCT  
ACCTACTTAAAAATTTCTTTAGACATTTCCAAAGGTTAGTAAAGGAAGACA



Table 2

TAAGATATGCTTACTTAAATCCTTGCTGGTTCATGCCTGGCCATACATG  
>Sequence 857  
CCCTTGAGCGGCCGCCGGCAGGTACCATGAAATAGGACCTTCTACGGT  
TTAAAATAAATGTTTGTCTTTCTAGCCCTGTAGGTCAATGAATGCCTG  
ACTCCAGTGACAGACCATAATTATCCAAATCTCTCATTTATGAATATGGA  
ATATAAATATGCTAAATTGATTATGTCATGAATAGACTTCTTTTTTGCAT  
AACAAATGTTTGGAGTTTCTCACCTTTCTCCTAGCCTTCTTTTTCTTCCTT  
AAATGTAGCCTGGAGGATTCTATCTATTCCATATAACTAAAAGTAAACG  
TTTATTTAGGAAAGGGACTCAGGAG  
>Sequence 858  
GGTACAAATGTGAGTTCTTCTCCAGACCATCAATATAGATTGGATTTATA  
CACTGATCGCTGTGTCTCTCCTTCGTAATAACCTTACCCCATGTTGCAAC  
AAACATGGACTTGTTACAACATCCCAGAGTGAAATCTGAATGTGGTCAAG  
AAAGTTTCAGAAAACAATAAGAGTGATGCAATGCATACCACAACTCAGGCCC  
AGTGCAAAAGTCAGGCCCCAGCCCTTCCCATAAAGGGACTTGGTCATTT  
GAAAAATCAAAACCCAAAAGGAACAACCTATAGGGACCTGTAATCAATTAG  
AATATTCT  
>Sequence 859  
ACTGGCTGGACTTGAGGTGGTTTAAAGTTGGCAGCTACATCGAAGGACTTC  
TGAAAAGCTCAAGTGACAGTTACACCTTTGCACTCTCCACATTCAGCTGG  
CCTTTTCCCTGAAAACATGGATAATCTTCAAACCTCCCTGAACAGGTGGA  
AATGCGTCTTTCCTCTAAGCCAAGTTCTCAGTCCACATTAGTCCATACTT  
GGCTACAGAATTGACGTTTGTGGCCACAATCCTACTAGAAATGACCTTTG  
GGTAATATCCTTATCTTGTGATCTAGTTAGGGTCAAGTAAAACGAAATA  
>Sequence 860  
GGTACTTTATGCAGAAGGAAAGCAATTGCAGATGGAAAAAGCTGAGATGC  
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ATATAGATGAACAATGAAGCATAAAACAAAATTTTAAATATCTTACAGGCTA  
AAATATTTAGAAATGAAAGACAACAATAGCATATAAGTTAAGAAAGGGGG  
TAAAAGAATCAAGAGCATTCTAAGGTCCTTATATTACCTGGAAGGAGAG  
TAAAGATAATGACTATCTTCAGGCTGATAAATTAACAATGTATGCTGCCA  
TTTT  
>Sequence 861  
CCCTTTGCGGCCGCCGGGCAGGTACCAGCACAGCAATTGCTGTATGTTT  
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TCTATTTTCTATATCAGAAATGAGCAGGCATTTTAAAAAATGGCTTTCAT  
TGATGGAGAGGTAAAAGTGAAATGGCTTTGTTGTATTTATATTATAAAAG  
GCCATTTCCCAAATCTAGAATTTATTACTAAAAATCAAGTTTGCAATTGAG  
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ATATTTTCAATGTGATTACTCACC  
>Sequence 862  
GGTACACATTCCATGCTGGGTCATACCTGAGTGCCAGTGGAATATAATTT  
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GCCTTAGTCATCTATTGATTATGACAATATACTCTTGAACAAATTGTTTT  
CGGTTCTGGTTTCTGTGGT  
>Sequence 863  
ACTACACCTCACCACCTGGGTGTCTCTCAGACGTTACCAAGAGACAGAGT  
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TCCAAACCCAGTTGCAGGAATTTATGTCCTAAAGTAAACCATCGTATGAT  
AATTTCCCTGAAAATGTGCCTATTAATAAAAAAATAGGATATGATGGGAG  
GCAGACATAAACATCTGCTCAATTTATTGGTGTTATTTATTTTTCAGT  
TAATAAACTGCCCTTTCGCTATGCTTCACTTTCCACGTGTTTAGGCAGT  
>Sequence 864  
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Table 2

TTTTGTTGATAGCACTAGGAAGACTTCTAACGTTTAAATACTTTATTTGC  
CCTCAATTACTATTTAAAAAGTCCTATAATTTTAAGTAATTNTACAGCTGA  
CAAAGATAAATATTTTTCTTTTAGTTTCTTAATGCTTGGAGGTAAA  
GTGGAATGGCCTGTTTTGACACATAATTTCTAGAACTTGGAGTTAATTT  
GATCAGTTACATTTGGGTTTTTTTAGATTACAGTTCTTGGGGTAGATAA  
CACTTCTTGCTGCTTAAGTACCCTCGGACGCGACCACGCATAAGGGCGA  
ATATCCACACACATGGAGGACGGTACATA

>Sequence 865

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CAAGGTCCCCATCCAGAAAAATGTGCAGTTTGTCAATGGGAAAGATGC  
AGAGACAGTTTCAGTTAATACTAAGTGCTAAGATTGGGATGTGCACAA  
GAAGCTGGAGGTAAAAATTCTGGAAAAGTGAACGTGAAGTCACCACTAGG  
CAAGCTGCCTGTAATTGAGCTTGCTTGATATGACCAATCAACCTTTGCT  
TGTTGAAGGATTAGTTATCTAGTTTCTCCTTTTCTTTTTTGAATTTGG  
TCTTTTAAGGCTTGATAATCTTCTAGTTTAGAGCATGTGAACAGAACA  
GAAGGAAAATCAGGACTCAGTTTACTTAATTTAAGCAAGCATTGGTTGCT  
GCAGATTAGGGGAGGTTAAAGTTGCTGGGCTCCACTCTTTTATTAGCATG  
GATGCTTAAAGAACTTCAGGGTTTGGAGGTTAGATTGAACAGCCTGTTTT  
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CGGCGATACTAATGGATCCAGGCTTGGTACCAGA

>Sequence 866

CATTTCCCTTATATGTTTCGTTTTTTAGGTACTATGGTATGCCCTAACTA  
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AGTACGGCTTAGTGGAAGTTTAAAGTTTCTACTGTTATTGAATAAA  
ATTACATATAGTGTGATTCTTATTACTTGAAATTAGGAGGAGAAAGAATT  
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TTCACAGATTAAAAATACTAATATTTGCATTGTCTATATTACAAACA  
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ATTAATATAACTTCTTTATGCAGCCTAGACTTATTTGTATGTATTCCC  
TGACCTTGATGTATAGATAAGAAAGCCATACTCTAAGAAAACTAAGTAT  
CTGCTCGGGTGGATTGTTTGAAGGGCGAAATTCCAGCACATTGGCGGAC  
AGTTCATAGTTGGATCCGAACTATGGAACCAAATCTTGGCGAAATCATGG  
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CACAAGAAATAATGAGTCAGGGAATCATATAAGTGATAATGTCTGGCTAT  
GCTTTAAGAAGTAGGCCAAACTCATATATTAATATGGGACAGATGAATAT  
AAGACCTATTTTCTAATATCATGATATATTAATTTAGTACAATTATTT  
ATATATGTAATTAGACAACTCTTCGTGTGTGAGAGAGTTTGTTCCTCGTA  
TATCTGGAGTACTATTACAAATTTACGATATTCATATGCA

>Sequence 867

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TGACCAGCTATCATCTTACCTCATAGTTTTTTCTCTGGTAGAGATAATT  
AACTTATTATGCTTGATCAGTTAACTCTTGCTTAGAAATTTAAAAAATAT  
TTTTAAGTGACAAATTTCTTTGTAGAAATTTTGAAGTATAGAAATTTTGA  
AGTAGAAAGTTAAATCACCACAATTTCTGCTTTGTAAACATTTGAATA  
TGTTGCTTCCATGATATATAACAAAAATTTGTCTGGGTATTGCATATGTC  
GTCCTTTCCTTCTTAATATTGCATTTTGAGCATTTAACCAGAACACTAAA  
TATTCTCCCTAGAACATATGGATTTTGAATAATTTAACTAATTATAAAAA  
TAACTTCCCTAATGGTTCTTTGGGCTCTTAAAGGTTTGCTGGTATATGT  
TCAGGGTATGAACACTTAAGGCTCTTGACCACATACTGCCATACTGCCAT  
ACTGGCATACTGCTTTTAAAAAATAATTAAGCTGAGTGCGATGGCTCACG  
CCTGTAAATCCAGCACTCTGGGAGGCCAAGTCAGGTGGGTCAATTGAGGC  
CCGGAGTTTGAGAACAGCCTGGTGGACCTGGGTGAAACCTTTTCGTTACT  
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CCTCTAAGGGG

>Sequence 868

Table 2

CCTTTCAGCGGTCTTTTGGCAGGTACTTCCTTCTTTTTGGTAATTTTGC  
GGGATGTTGTATACTCTCTACCATGGGGATGAAGACACAAGAATTATGAT  
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ATGGCAAAGATACAATATGACAAAGTTCAGTTGCTTAAATGAATCTAGGA  
ATGAAGAATCTAGAAATTATAATGGAGAGGTGATTAGGAGTTTAAAATGG  
TTTATTGATTGGAGATCCTTTATCTGGATTATATAGGGAACACTTTGCTT  
TAGGAGAACCACCTATGATCTAGGAAAACGGCTTTTAAATGTACCTCGGA  
CGAGACCACGCTATAGG

>Sequence 869

TGTACATTAAATTAAGCATACTAAAGAAAAAAGGAATGTTTTCTTAGCAA  
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CAAAAATTAGCCACAAGATGAAATTCAGTTAAAATTCCAAACACTGTGGA  
GATGGAAAGCCTTGATTTTTAGATGAAAGGATTTATGGCTGGAATTA  
GAAATTAAGGCAGAAAAGTGGGTGAATGGAAAACATTTACTTTTTGTT  
TTAAGTGTTAATAGCCACTTTTTGTCCAGTCTGTATCTCCTTTCATTAG  
TCTTTATATATATATATACACACACACACACGTTATGTTATATATACAT  
ATAATGGTTTATGTATTATATATGGTATATATACACTTATATGTTATATA  
TATGGGTTTTTTTCAGGAGCATTATATCATGGGAATGAGTTCAAAAGTAC  
CCGGCCCCGGCCGTCGTTGAAAAGGCCAATTTCCACACACTGGCGGGCGG  
TACTAGGTGATCCGACCTCGGACCCAACTTGGGGGAATCATGGGCATAAC  
TTGTTTCTGGGGGAAATGGTTTCCGTTTACAATTTCCACACACTATAC  
AACC CGGAAAGCCTTAAAGTGGTAAAGAGCCGGGGGGGGGGCCCAAAATG  
AAGGGGAGCCCTTAAACTCTCCCCAATTTTAAAAATTTTGGCCGTTTTTC  
CCGGCCTCTTAAAAATTGTGGCCCCCCCCGTTTTTTTTTTTTTCTCAAC  
AAAGAGTTG

>Sequence 870

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AAAAAAGTTATTATAACAGACAAAGCANATGCAAACTTATCCTTCCAAAC  
CCTGATAAATTGGTAATACCAATAACTGGTATCTAATAAATATACAAATC  
AAGAGAATACCTTGCTAGCTAAATTAAAAAATAAATAAATAAATAAATAA  
TACTTAACAACCAAGTGCAACTNTGTAACCAAGTGTTCCCTAGCTCCCG  
CGTACC

>Sequence 871

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CTACTCTCTTTAAATACTGTTCTGTTATTTTTGAAATCTGATCAAGAATT  
GACACAATAAATCTCTTTGATATTTATACTTATGCCTACTTTTAACTTT  
TAGGAAAACCTTTATGAATTGGAATATTCTAAATCCTGAAATAATTTGGA  
ATATTCTAAATTTCTGAAGAGAATATGAACGGATTGTTGGAATGGAACCT  
TTACCCGATTCCCTCAGACTAGAGTGTTTCATACGACATTTTGCCAAGAAG  
TTCCTATAGAGGCAATATCACTTTTAGGATGGATGGGTCTAAAAGGATCA  
TATTTAGTTTCTGGTTATTCATGGTTGCACTCACTTTAGAGGATGTGTTC  
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ATAGAAAAGAAAGGTTGGGAGAAATAGTCGTGTGATTCTTCTGGTCAACATA  
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AGCCAAGATGACTTTTTTCATTACTTCGATGTTTTTATGGTCTATACCTCT  
CTCTTGCTCCATATTATTTGTCAGTGGTGCGCAGATTATTTGATTCCA  
TAAAAATGAACCTGGGTTTTTAACCATTAACCTGGAAAATTCAGAAGT  
TTGGGCCCTTTGTCCCCCGGGGGCCCGGGGGCTCCCCGTTTTTTTTTT  
GAAAAAAGGGGGGGGGGCCGCCCAAAAAAAT

>Sequence 872

ACAGTTCTGTGTTTTTCAATTGATACATACTACTTATGTAAGAAAAATGA  
GTAATAATAGAGGGCCACACAGGCAACAGCCATTAGGTTATGCACAGAGA  
AGGAAAAACTTCAGAGGTTGTGCTGCCATCTTCTGGAACAAACAAGAATC  
TACAGGAACAGAAACATGATGGAAGAACAAGGGTAGTTACTGCAACGAA  
AAAAATGCGCAGGAAAAAACCATTTTGAAGCCAAGCTTTTGATTTAAC

Table 2

CATGAATGAAAACAAATGGGAAAACAACAACAAAAAACAACAAAA  
CAAAAAACAAGAATGACCAAAATACAGAAATTATTAATGTTTTACACATCT  
TGTACC

>Sequence 873

CCCTTAGCGTGGTCGCGTTCGAGGTACTTGTTAAAATTCAGATTCCTGGA  
CCCACCCTAGACCTACTGGATCCAAATCTCTGCAGACATGGCCTGGACAT  
CTTCATTATAACAAGCTTCCACATAGATTATTTTGTCAAGTGGCCATGTCT  
TGCTTTGCTTCTGTGGAACTACTCTCCATCTTCTGGAGTGGAATGTCCC  
CCATTGCTATCCACATGGTCCTCGCCTCCCTGATACTGTAGTCTCAGATG  
GCACCTCTGAACTGGGCGGAGCTCAATCACTTTCCAGACCCTGCCAC  
CTCGCTGGAGCTCAGTGGGCCCATGGTGGGCAAAGGAACCCAGGTGGGC  
CACAAAACCTATGCATTTATAAGTAGATGGGGGCTGAATTACAACACAC  
AAGCACTTAAGGGACTTTCTGAATATCTGGACTCATAGGATGGCGAGCAC  
AGCAAGAGTGCAGATTGAACCTTACTCTTAGTAACAGATTGTGACTCGGAG  
AGACCCTGGGTGCGGATGGTCTGAGTAATGGCAATACTCTTATTTGATA  
TAAAGAGGACCTGGAACTCCTTACAAAACATGTCTCTTTGTAAGACAG  
GTGATATGAGACTAATTCTATTACTGGGCCTCTCCAAACATTTCAAAAAG  
AAACAAGGGTCAAACTTGCGATACCTCCCTTTCATATGTGACCGGTAATA  
GGGCTTATAAGGAGGGCATGCCATTTACTGAGTATTCGACGTCTTAACGG  
TATACAAATTACATCTACGCCT

>Sequence 874

CCCTTTGCGTGGTCGCTTTTCGAGGTACTGAGGATGACTAGATGACAAAT  
AATAAGAAAAAATGGCATTGACTTTGTATAGAACTTAATAATCAGATTTT  
TAAAGAGGTTAGTCTATTCTCTTATTTGAGAGATATGGAACTATCTAGG  
CCTAAAGACTGTAAATCTGCCTGGAATCAGATAGTTGGCAGCAAAATCAG  
AAATAGAAAGCAGTTACTCAACAACCAACAGTTTAAATTTAAGAAACATTT  
GACAAGCATCTCCTGTGGATAAGACCCTATGCAAGATGTCATGAATATAA  
ATATGCACAGTAGT

>Sequence 875

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GAAGTCAGGACTTAGATAGAAAGATTACAAAGAAAGTCAAAGTAAGCAGA  
GGAAAAAGATACCAAAATGACAGCTTCAGAATAAGCAGTAAGGGAATAAA  
GAAAACAAAAGTTGTGTGTGTGTGCATGTATTACATGATAAATCCATGGAA  
AAAGAACTCGCAATTTACTAAAGGAATAATTCATGGTCATACCAATTTCT  
GTGTCCAAAATACTTGATTAGTATCAGAAGGAAAGTCAATGTTTAAAC  
AGTCCTTCCCACATCTGCTACTTCCATAATGCCTATGCAACTGTCATAAA  
TTAAGAGTAGAGAAGGGCACAGGGCCCACTGTCAAAACAAACAGGCAATT  
CTGGGTTCCAAGTTTCATATAATTTTCTTGAGCCTGAAAGTCGTGAAAAC  
TGCTTGTCTAACATGGACCACTCTAGCACTGTAATGGGATAACCCATTA  
ACCTGGATTCTGGCCACAAGCCTTGCCCTTTGTGGCAAGGTACCTGCCCGG  
GCGGGCGCTTAAAGGGGAATATCAT

>Sequence 876

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CCCACCCTAGACCTACTGGATCCAAATCTCTGCAGACATGGCCTGGACAT  
CTTCATTATAACAAGCTTCCACATAGATTATTTTGTCAAGTGGCCATGTCT  
TGCTTTGCTTCTGTGGAACTACTCTCCATCTTCTGGAGTGGAATGTCCC  
CCATTGCTATCCACATGGTCTCGCCTCCCTGATACTGTAGTCTCAGATG  
GCACCTCTGAACTGGGCGGAGCTCAATCACTTTCCAGACCCTGCCAC  
CTCGCTGGAGCTCAGCGGTCCCATGGTGGGCAAAGGAGCCAAGTTTGGGC  
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AGCACTCAAGGACTCTCTGTAATATCTGGACTCATAGGAAGGTGATCACA  
GCAAGAGGGCAGATGAAGCAGACTTAGAGAAACAGATGAGACACAGAGAG  
ACCCTGGTTCTGGTTTGTCTGAAACATGGCCAATCTCCTATTTAGATTT  
AGAGAGGTACCTGAAACATTTCTTACAAAAAATTTCTTTTGTATATGA  
CGCTTAATTTGAGGCCTAATTTCTAATACTGTGCAATCTCAAAGCTATTC

Table 2

AAGGAAAAATAAAAGGCGCAAAAATGTCTAATACTGCCATTGGATTGGTGC  
AAGGATTAAGGGCTTTCAGGGGAGGAAGGGCCTTTACCTGGAAAAGTTTG  
GCCTGGAAGGCTGTGACAATTACTTGTCTCCCTTCT

>Sequence 877

GGTACTTTTTTTTTTAATTTTTTTTTTTTTTTAATAGAGATGGGGTCT  
TACTATGTTTTCCCAGGCTGGTCTCGAACTCCTGAGCTCAAGTGATCCTCT  
CACCTTAACCTCCTGAGTAGCTGGGACTACAGGTGCAGACCACTGTGCC  
TTACTTCTATTCTTACTTGACAAAGGAGAGGAAAAAAGGAAGTTTAG  
AGAAATTAAGTAGTAACCTGTCCAAGTTTACCCACAACCACTAAGTGGTA  
AAGCTGGGGTTTGAACCTCAGCAATGTGCTTAAATCTCAGTAACTGAAAA  
TACACTATGGAGGACCTTTAGGTTTTCTTAAATTCAGAAGGTCTTTTTCC  
ATGT

>Sequence 878

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TATTTATGCTCAAACCAACATTTCCATTTTATCTATCTTAAATATATCTT  
CCTCTTCTTTACGCCTAATTTCTTAAACTCCCAGAGTTTTTTCTGTAAG  
ATCTAGTCATCTGTAGCACTTCTCACAAATTAAGCTCTCTTATGCCCAA  
ACAGTAACGAAAGAGGTCTCTTAGTTGGACAATAAGCAGTGAAAGATATT  
TCTTAGGGACAAGAAATTAACATTATTAGTCAAAATGTTGATGCCGGTAG  
GCTGAGAAATGATTCTCACTTAAAGCCCTGGGTTTTAAACCTCTCTTA  
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>Sequence 879

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TATTTACAATCTTGACCTTTTGAAAAGATACAGCAGGTAATAGCCTACA  
GGAAAGAGGAGGTAGAAAACAAGTGCCACAGTAGAAACACTTTGATAGCT  
AAGATGCTGTCTATCCTTTGTGGNTATTCTGTGCAGTTGTCTGCCTGGGT  
TCTTGAAAAGTCCAATCTAAAGGTGCTTGATTGCGCCCAAGGATGTCTG  
CATTCACTACTGGGAACCTTACAAGCCCTCTTGCTTCAATCAACTCCTCA  
ATCAGTTTTCCAACTCTTATTCTTACTAGACTGCGAAAAAATATTCTTC  
TTTTTACCGCAATGGAAAAAGGGCCTTGGGGGATCAACCTGGGGATGTGT  
GAATTATTAACCTATATTTTTATATAAGTGGACCTGCCCCGGCCGCCCT  
TTAAAGGGCCA

>Sequence 880

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AGCCCATCTAAAAAGGCAAACTACTGTATGATTTCACTTAACTGTGATATC  
CAGAGTAAACAAATTCATAAAAAACAGAAAGTAGAATAGAGGTTTCCAGGG  
ACTGGGAGTTACTTGATATAGAGTTTCAATTTTGTAAGATAAAAAAGTTC  
TGGATATTGGTTGCACAGCAATATGAATATACTTAACACTACTGAACTGC  
ACACTTAAAGATGGTTAAGATGGTAAATTTTGTAGGTGTTTCTTACCAC  
ATTTTACAAAAAATTTAATTAAGGAATTACAAAATGTACAAAATACT  
ATTCATCATTGTGTTTCCAGTTTATATTCAACACAGCAGTATTTCAAGGTA  
TAGTAATTAACCTACTATCATTGAAAAGATGTCTATAGCTTAGTAAATA  
TCCAACCTTATTATACATTTTGTGATTATCTAAGAGAAACCAAGCCCC  
CAATGGAATGGAGTTCTCACTACTTCACCTGCCAGCCTTCAAAAAAAGCC  
TGATTTTCACTACCTATTAAATGGGTACCTGCCCCGGCCGCCGTTCAA  
AGGG

>Sequence 881

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CAGCTTAATCAGACTTCTCTAGGCCTAGGACAGGCTTAAGATCAGTTAAT  
TTAAACACTTCTGATGTTTCTTGAGCATTGAAAAGTTTATTCTTTCTG  
CTTGTTGTTTCAATCTTTTGTGTTTGTCTTTTACTAAGGCTAGAAACAC  
GTATTTGGTTTGGTTATCTGAAGTTAATTGCATTCAATTGTGTTTATAGT  
ATTTATCCCTGTAGTGTGGAATTACCAGTCACTTACATTCATTTTTAG

Table 2

TTTTTGCCTTATCTCCTGAAAGTGTGGGGGACTTTGAATGGGTGTGTAA  
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TTAAATGACACTGACATGTTTTTAAAAATCGGGATTGTTGGCTGGGCACC  
GTGGCCACGCCTGTAATCCTAGCACTTTGGGAGGTGGAGGCGGGCCGAA  
CACAAGGTCAAGAGAACGAGAACCATCTTGCCACACGGGTGAAACCCTAT  
CTTTGCTTGTGAAGGAAGAAGATGATACATGATGAAGGGTCCCTTGGCCG  
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CCAGCCTCGG

>Sequence 882

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CAGTCTTTTTTAGGATGTAGCAGTCTTCCATGTATCACTTAACCAATCAT  
TATTCTTACCCCATCTTTTTGGGCAGGGGGTGGTAGAATTTAAATTTAC  
CATTACTAAGACAGGGTGATAGTAAGCATAGAATTTGGGATGTCTTTTT  
TTTCCCTTGCCCTAAACCTTCAGAGTTCTGCCAGGTGATTCAAATGTTAAG  
ATCCCATAACTCGCCTGTGTGCTCAAGCGAACAATAACACTTTAAAAAG  
TGGGAATGAAAAATCTGAAGTGTGAATTAGACACAGTATTTGGGCCCA  
TCTTCAATTTAGAAAGAACAAGTGGAGATATCAAGGCCATTGCGGCCTT  
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>Sequence 883

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CCCTCTTCACATTTTATTGATTCAAACCTTTTTTAAAAAACTTAGATTCT  
TTTAAAAAATAAATTTAAAGAAAAATGACATCATTCAGATAGCCAGC  
TACATGTGTAGTTTGATCATTCAGTTTAACCGTTTTATCACTGTTGATAT  
GAACATTGAGTACC

>Sequence 884

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GCTATACTAAGATATAGAGTCCTGCCACAAATACACAAAAATAACATGA  
ATACAAAAGTGTCTAAAAGTCATGCCAAATAAAACAGAGCATATAACTGG  
GCAGAGGGATGGAGAGTCACATGCTGGAGGAGGTGAGCGTTGACATGGTC  
TTATGGGATATGAACTTGAGATGTTGAAGTAGAACTGAGACATTTCTGGA  
AACTAGATGTATGAACAGAAGCAGGAGGAATAGGAGAAGGTTTGAAAAA  
CAGCAAGCAGCTCAGTTTCTTGGGTGGTCCAGGAGAAGAAGCTCAAACAA  
CAGTCAGTGATAACACTAAAAAATCAAAAATTTTAAAGTCTGGAATCA  
CAGCATAAAGAACCCTGATGCAGGATTTTTATCTCGCAGCCCTGTCTCCC  
TCAGGAGACAGAGATCCAGAATCACTTTCAGAATGGTTTAGGGTCACCT  
TCCAGATTCTTTGTTACCAACCCTTGACCACACCATTTTAAGATTTCOA  
TGGACCTGACCGGGCGGGCGATCGAAAGGCGA

>Sequence 885

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CATAGCTCTTTCCCTGCCTTTTGTCTTCAGAGTTGATCTGCTTCTTACA  
CATTCACTTTTTCAGAGTTTGCTATCTTAGAAGCAAGGATCATTTTAAAT  
TGGTTTGTTTACTTCAAAGTCCCACTCATCAGAGGCAGGGTTTCGCTTAT  
ATTTGGCTCAACTACTTTCTTCTGCTTGGTTTAGTAACACTAATGTTTAC  
TAACATTAAAAATGAAACCAGTTTTGCAGCTAGCATCTATTGACAAATATA  
ATTATTTATTTCAAACCTGTATATTCCAAATTTAAACATATTCAATGCTTA  
TTGAACATTCTAACATAATAGCTTATGATAAAGGAAAAATATAACATCTGG  
TTTTGGATCTGAAGCACAACCACTGCTAGATATTTTGGGAAGGCTTTTTTA  
TTCCAATTCAAGGTGAATCTCCGAGGGTGTGGTGGCCTTCCCATTAACAG  
CAAAAACCTGTCCAATTTGGGATTGGTAGAAATAAACCGGATGACCATTA  
CCTTCTTTTTATCCCCAAATTTGGATTTTATGCCTACCTAATGGCTTTCTT  
GGATATGATGGTTGGCAATAGCCTGCTTCTAATCTATTTTGGATAGAAAA  
GGGAACTTTAATATTAGATTAGGGGGCTTGATTTTGACTTCCTTTAACA  
CCGAATGCGAT

Table 2

## &gt;Sequence 886

GGTACATATGGCTCGGCCAAAGGGGGACTGGATTAATAAATTCTGGTAATA  
TAGTAAGGACAAAAATAAATGTAAAAAAGATAGAAGTAAATGTGAGAACAT  
CAACATGAACGCGTGCTCCTTTGAGTAGAAAAGTAATTTTTCTGCTTTGTC  
ACTCAATAGCTGGCAGACCTGACATCACCTGCCTCTGCTTCCATGCTC  
TAAAACTTTCTGGGCCCTCAGATTTGGATGCTAATATGATTTTCCACTTA  
GTGGATAAGAGCTCCCTGGAGAAGGGCTCATTCTTGGATGGACAACAGAA  
TTAGAGCCTGAGTCTAGAGCTAATAAAACAAAGACAAAGAAGGGATCAG  
CAGAAAGCTTGGTAAAGACTGTCCTGGCCAATCTGATTACAGTCAGTTGG  
TACCCGCCCTGGCGGCCGCTCGAAGGGG

## &gt;Sequence 887

ACCGATGAAAGTTTAAATCTAATCAACAGTATTATGCACTGGTTGAAGAA  
AACCAGGATTAAGACGGAGGATAGTCAGCATGGAATCTAAGAAAGGAAAA  
GTCCGGTAACATATATGTGTTCAATTAGATTCTAAGCTGTTAAGGGAGAAAG  
ACCCTGAGTCTAATGAATATAAACTTTAAATTTAAAGAAAAACATNGTCT  
GTTATAGAAAAGTGGTCTTTTCAGGTTTTGTAAAGATGAACATTTTCATCT  
TTGTAGTTGAATGCTCATGGGGATTAGCTACCTCCATTTGTTTTAATGG  
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AGGTGCCCTTGGTTGGGAAAAGTGGAATAATTCCTAATTATGGAAAATGAT  
TATCCCTTTATGATAATTAAATATTTTATGTTTCATGCTTCATCTCTTAC  
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TCTAGATAGTACTATTTTCTGACCTGATATTCAAATTCGTGTTATGAATTC  
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TATATAAATCGGTCGTATTGTTCTACTTATANAGTTGTTGAACGCATCCC  
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TAACGTATAATAATATTTTTACCCTGATTATCCATTGTCATGTTTCGTA  
TTCAGTATTCCTTTATCATATTATTGAATATTTG

## &gt;Sequence 888

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ATGTTGCTCTCTTAATTACAAGTCTGCAGTTGCCAGCTCTAGTTTCTTAA  
AAGCGGACATAGTATCTATGACTTCTGACTACCACATTCATGCTGAGATT  
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CTCGAGTTTATTTTATGTTTCATCTTCTTTTATAAAAATTGTCAATTCTC  
CTTTCTAACTTTTTTTACTTTTTAAATTAATAATATATACGATTCTTCTGC  
TAATCGCTGCTTCTCTTATCATTTCTAATATTAACTTTTTTATCTAAAT  
CCTACGTACTTACTCTTTCTTCATCTTTTTTATTTATTAAGTAATACAA  
TCGATATATTTTCGTCGTTTATGGCTTTTATTTATCTCTTTTTATCAATT  
AATATAATTTTCATATTTCTTTATCTTCTCATCTTTTCTCGGCTTATTT  
CTCTTTATCTATAAATGTATTAATTTTGTATAAATCTTTCTGTTATGT  
ATCACTTATTTCTTTCTTCATCTTCTCATGTAAATAATTCATTTAGAT  
TATATTTAACTTTTCTTCAAATATGGCACTTACTCCTTCTCTTACTCT  
TTTACTAATACCATTTAAAAAATATAATCATAGTTCATGTTTATCTAAGT  
CCTGCCTATTTATCTTTTACTATATTAATGCTGTAAATTTATACGTATGT  
TGATT

## &gt;Sequence 889

GGTACTAAACAGGCCAGATATATTCTCTCATTAACTTATTGCCTAGCAGA  
GAAGACCAACATTTTAAAAAGTTTATACATATAGTTAATTTCTATTATGA  
TTATATGATACAAATGGAAAGTGCTATGAAAATGTGGAACAAAAGAGAAT  
AATCTGTCTGAACAGTCAAAGAAGACTTCTGGGAGATGACATCTGAGCTA  
AAGGTTGAACAAGGAATTGGAACACAGCTGGCATGTGCAAAAGACTTGAA  
GACTGAAGGAGTTAGCCTTTAAAAAATGAAGAAAGTTCTATTTGGCCAG  
AGCAGAGTTTCAAATAGTGCCTCACAGGCCACGTTAAAGACCTGAGGCCT  
TTATTCTAGGAGAATAGGGAGCTGCTCAAGGAATTTAAGCTTGAGAGTGA

Table 2

CAAGATCAGATTTGCAATGCCTTTCAAGAGGTAGTTACAAGGAGTTGGGT  
CTCTGACCCCTTTGCAATTATACCCATTCTAACTAAGAATGGGGAACTTT  
TATATCCTGTCTTTAATGAGTGAGAAAAAGAGGAAAAATAAATAAGTT  
CCTTGCCTGGGGTTCGTTGAAAGGG

>Sequence 890

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TCCGTCTCCCCACCTCCCAGACCTCATTATATTATCCCGAAAAGAACAG  
ATCTCTTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCCA  
CCAATTGGCAGGCCCATTTGGGTGATAAATGTCCAAGGACCTCTAGGCTGA  
CGACACATTTTTCATCATTAATCCAGTCTATTGTAACCAGGGCCACTCAC  
ATTGATTCGGACTAGGGGGCATCTGCTGTTAAGAGGGTGATGACTCG  
CTAAAAATGAGGGCCTGAACTAATCAAATATATTTAGAGCCTTCCCTGG  
CAACTTGCTGGGAGAGCAGCAGTAGACAGCTAATAGGGGAGCCCCAGACA  
GGTAGCGCGGAGCTCACCATGCTTTGGATGGGAATGTGAGAAATCCATT  
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GCGACCACGCTTAGGGGC

>Sequence 891

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GGTTGCTCACCTGTTGACTGGAACAAACAATAGTCCCTTCTTCATGCGGG  
CATGGTGAGGGTTTTAACCCCGCATTGTCCACAAAGACCGCTTAAATTAT  
AGTAGATGCTCAGCAAATCTGAGCTATTATTTTATCACGACTGTCAGAG  
GTCAGATCAGGCTTCGGGGTCAGACACACCTGGGTTCAAATCCCAGCAGG  
GCCACTTACTGTTGGAGCCGGGGCAAGTCAGTTATTCTTCCCTGAGGGTC  
AGTTTCTCATCCCTAAAAATCCAATAATAACTCATCTTTCAATGAT  
GCCGGGAGGTCTTAAAAATAATATAAGTTCAGAATGATAAAACAGGCTGG  
CACAAATTGGATGGCAGCCAATGTCCTTGACCCCTGTGTCTCCTGCCTT  
AATTTGTGTGAGGAATAAGGCCAAATGTGTACCTCGGCCGACCCCGC  
T

>Sequence 892

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AGTGGATGATGAATTTTTCACACATGGTCAACTCTGTGCCACCTGCTA  
CAAGATGTTGGAACAGGTATATTTATTTAATGATGATCAATGATTC  
TTCCAACATCAGGGAACATCAGGGAAATCAGCTAGTATATGCTCTTTTG  
AGGATTTTCAGCTCCAAATCCTGAAAGCATTATGAAACTACATAAATTA  
CTTTTGTTAAGCAAAATCATCATAAGTAAATCCAGTCATATGAATCTGGAA  
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CACTTAGTCAAGAACAAAACATTTAGACATTTAATTTCTTTTGGGGTTN  
TAAGTGATACATGTTTAAATTTGTATATTTAGAAAAAATGTTTTTATTA  
TATATAATTTATAAATCAGTGGAGAGACAATTTATACTGAGAAAAATTTT  
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TGAAGGGAGGAG

>Sequence 893

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CGTTAATTAGGTATAAAGGTAGAGTTAAGACATTTATAGACATACAAGAT  
ATTAAGATTACTGAGTCAATTGATATTCAACAGGGGTGCAAAATGGAGAAA  
AAGTCTTTTCAACAAATAGTGGTGGGACAAATGGATAGCCACATGCAAAA



Table 2

GAACATATATATAAGAGCTAAAACCATAATGCTTTTAGAAGAAAATATAG  
GGTTTATCTTCATGACCTTGAATTTGACAAAGGATTCTTGGACATGACAC  
CAAAAGCACATGCAACAAAAGAAAAATTGGAGTGATATGATTAATATGGT  
GGAACAGGAAGTCTTCAGCTTGCACTCCTCCGCCTTCTTGACACAAACAAC  
AATCTGGCAGCCATCCATGGACAAAAGTGCCTCTGTGGGAGCTCTAGGAT  
CCAGGTAAGAAGGTATGAAACCCTGGTAAAGCCCAAGACGGAGGAGAGGT  
ACCTCGGCCGCGACACGCTAGGGGC

>Sequence 894

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TCCAGGGATACGTCCATCCCCGTCTGCTGGAGCCCAGAGCACGGAAGCC  
TGGCCCTCCGAGGAGACAGAAGGGAGTGTGGACACCATGACGAGAGCTT  
GGCAGAATAAAATACTTCTTTAAACAATTTTACGGCATGAAGAAATCTGG  
ACCAAGTTTATTAATGGGATTTCTGCCACAAACCTTGAAGAATCACATC  
ATCT

>Sequence 895

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TCCAGGGATACGTCCATCCCCGTCTGCTGGAGCCCAGAGCACGGAAGCC  
TGGCCCTCCGAGGAGACAGAAGGGAGTGTGGACACCATGACGAGAGCTT  
GGCAGAATAAAATACTTCTTTAAACAATTTTACGGCATGAAGAAATCTGG  
ACCAAGTTTATTAATGGGATTTCTGCCACAAACCTTGAAGAATCACATC  
ATCT

>Sequence 896

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GCCATTTCGTGCTAGAAACAGCCAAAGCCAGACAACCAAATTACAGATGCT  
TAAATGTTAATGCCAGACACCAAGGCTCCGTGAACCTCCCTGTTGAACAT  
CTGACCCCGACTACTTGAGGACATGAAACCTAAGTGTGCAGCTAATTACA  
CCTTCCAAGGGCAATGACATCGGGTCCTATGATTTTATTTCAGGAAAGCAA  
TAAGGCAATCGGGTCACTGTGAACATCATTGAAGGGAAGTAAGTCTTCT  
AGCTTTATTCCACAAATGGTCTATC

>Sequence 897

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CTTTACTAGAAATATAGGGCAATAATAAAATTTCCAAAGCCAAAGTGAAC  
GATAATATATATTTCTTTAGAAAGTCTCAGAAAACCCATTTCCTGAATGAC  
AAAACGGAGAGATAACTTACAAGTGGTATATCTGAAGTTAAATTTTCT  
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TGGGTACGGCACAGTGGCTCATGCCTGTAATCCCAACACGTTGGCAACCT  
GAGGCAAGAGGA

>Sequence 898

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GGCTGNGGGCTTGGTGGATTGTAGCGCCAACCTTAAAAATGGTTGTCAA  
AAAAAAATTACGGGTTACGTCCCTTTCCAAGGTGGAAAAAGCCGGACTTT  
TTTTTTTTTTTTTCCACAAAAAGAACCTTTTTTTTTTTTAAAGGGGGG  
GAAAAAAGAAGTATAAAGGAAAAATTTTGGGGGGATTCTTCCGGGCCCCG  
C

>Sequence 899

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GTAAGAAATCCGCCACACAAGAAAGCACTGACATTTGGAGCCTCATCAGG  
TTCAGAGTTGAAAGTGAAATAAAGGATAATAATCTTTGTCTTATTTTCTT  
TGTTTTAATGTTTCCCAACTTACGTTAGGACAATGTCAACAAAGACAGAT  
GTCCCTAATAGTAATTGCAGGACATGTGTTTTCTCATTCCTATCA

>Sequence 900

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACATTGGAGGGGGCCATATCCAGG

Table 2

ACCTGTGATGTGTATAGGCAGACCAGACTGGTAGGGAAGAAAAGCAGAGA  
TATCAAGTGGGGGACATGTGTTTGCCTGGGGCTCTATTGGCCTGGAATT  
TTGTGGTAGGAGGAAGGCACAAAAGTAGACTGGGATTACAGGCGTGTGC  
CACCGCGCCCGCCTAAAGTGTGTTTTATAATAAACCTCAATCTGAAAC  
ATTTTAATAAAACCTTTAGATGACTAGATTTATGTTTATTTTGGATTTAT  
GTTTATATGAATAAAAAAGAAAAAGACGAGG

>Sequence 901

GGTACCTATGAGATGCATTGAAAACCTTACCTTGTATATGTTTCTTCT  
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GCAATGCCCTTTACAGCTGTGGGATGAATGGGGAAAGAAGTCTTGGTAA  
GGAAGCAATTCAGAGAACATGGGAGCATCTCATGGCAGCAGTCACAATTT  
TGTGTTGCGTAATATTTAGGAACCTTGCAACCCTGATAAAGTGTGCCTGC  
CTGTCTGTAGGCCTTTAATGATGTTTTATTGAATTTTGGT

>Sequence 902

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TATTCTACTTCATTAAATGTAAGAGAAAAGGTTACCTACATTACGCAGTT  
TAAGAAACAGGATAAACTNTAGCATATAAACAGTCTGATTACATTTTAC  
ACTTTCAACCATCTTATTTATACTCTACATTAGATAATCTTTAAATTCCA  
TCATAAGGTTTCCCATGTAACTCCATATAAAATTTTGTAATCCTGCCCA  
CCCCATGTCAACTCAGTGATACN

>Sequence 903

GGTACTGGGTGACAGGAGAGAGCTCATGTGACCCGAGTCTGGGTGGTCTC  
AGGCATGGTATAAAGAACTAGGCCAACCACTGCACTAGACATAGAACT  
AGCTGAATAAACTCATCCACTCCGATTTTCAATTCAGGTATCTCATGAGAA  
ACTAGAGGACAAAACAATTCCAAAATTAACAAAACAAAGTTTACTCTAG  
CCATCAGTGCCAAATGAACATAAATGACTGCCTGAGAGTTATATTAACAAA  
ATAATTAATTCAGACGAATTAAGGAATTAACACAGCTATGGGAAATATAC  
ACTCTATACTTAGATGCACATTT

>Sequence 904

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GTTACTGAAAAAGGTGACTAGGACTCTGTTTATGAAGAAAGGTTAGTATT  
TAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACTTAAAT  
TGTAATTCAGAAATGGCTTTTATGTATCTAAAACAATCTGGGCTGCTATAA  
AAATTCAGTCAACTTCTAAACTTCCAAACACAAAATAGTTATACTCAGTC  
TAAGAATATCCGACCTACCGTGACAGGACCAGAGGGCTCATCTCT

>Sequence 905

ACTTAAATAAAAATAAAATTAACAAATCATTTTAGAGATAAAGAGTGAA  
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TAAATCATGAAAAAAGTAAGAATACTTTATTATTCAAGTAACTTAAAA  
TTGTAATTCAAATGGCTTTTATGGTATCTAAAACAATCTGGGCTGCTAT  
AAAAATTCAGTCAACTTCTAAACTTCCAAACACAAAATAGTTATACTCAG  
TCTAAGAATATCCGACCTACCGTGACAGGACCAGAGGGCTCATCTCTGCC  
GAGCTTATTACAGTTTTG

>Sequence 906

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GGCGAAGAAAGAAGGGTCAGTTGGGTGGTGCATTGAAATAAGTGGTTCCA  
AAAGCAAACTAGGTCAACTTTTAACTGGCTAGTGAATAAGTATTCTC  
AGGATACAAAAGCAAGGAGAAGACAGGAATAAATCAGGACTCCAACAGGC  
AGAACAGGATTTATTTAGGGCATGCAATGTGGAGGGCCCTAATGGGAACA  
TGACAGTGTT

>Sequence 907

GGTACAAATTGCATTGTCAATTTATATTTGTTTCCCCACTAAAGCCTCCA  
AACCTTGCTTGTGTTTAAAGTATCCCTGGGGCTCATCACAGGGCCTGT  
TGAAGTTCTTTGAAATGAATTGAAGAATGTGAATAATAGTTCTAGTTCT

Table 2

TCGGGATAATGGAAAGCTAATAAGGTTTATGCTAGAGGCTCTTACTGCTG  
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ACTGTTAAG

>Sequence 908

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GTTGCAATTTCTTCCATTACCTGGAATAGCTGCTTTGGACGGCAAACCAA  
GCAATGCCCTTTACAGCTGTGGGATGAATGGGGAAAGAAGTCTTGGTAA  
GGAAGCAATTCAGAGAACATGGAAGCATCTCATGGCAGCAGTCACAATTT  
TGTGTTGCGTAATATTTAGGAACCTTGCAACCCTGATAACTGTGCCTGC  
CTGTCTGTAGGCCTTTAATGATGTTTTATTGAATTTTGGTT

>Sequence 909

ACCCTCTTCTCAATTTTGCTATGAACTTAAACTGCTCTTAAAAAATAT  
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GGATAATGAAAGAAATGCTATGGATAACTTCATGCTAAAAACTNCAACAAC  
TTAGAAGTATGAAATGAATGAACTTCTCCAAAAAATACAAGTTACCAAA  
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AACGTGAATTTGTCAAAAGCTTCCCCAAAATAAAATTCCAGGACCAGATG  
GT

>Sequence 910

ACTCAATGGGGTAGGGTGTCTTGGGATCTGACTGTTTCTTAGACCTTCAA  
TGCTTCTTGGCTTTCCTCACTGCTAGTTATAATTCAGTTTTCTCAGGTCT  
AAGTCATTCATCACTCTTTTGTCTGCTTTTCAGCTTCCAAAAATTCATTG  
CTATTATCTCCTCTCCTGTTTTCCCTATGGTGTGTTTGTGTCTTTTTCTT  
TAAAAAAATTCCTTTGTGGTGGTTTTAGGGGAGTTTTTGGGAATATATAT  
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>Sequence 911

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TAGACAGATTCAATTATTCATCTTGTGATTATGAGTAGTAACCAAATTGT  
CTATGTAATTTTCTTATGGTGAACCTACCCAAAGCAAGGCCTCACCTTAGG  
CTACCAGCTTGACTCTTAAGTGGACAGAAAGAGCCAAAGGCTAAAAGGTT  
TGTGAGAAACCTCATGAGCACTGAGTGTCTAGTTCCAGATGAAAACCGG  
TTTCAGGTATGAAGCAAGAGGGAGTGCTAATTGGTAGAAGTAATTACATC  
TTT

>Sequence 912

CCCTTAGCGGCCCGCCGGGCAGGTACAACAGAGCACAATGCTTAGATTG  
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AAATAAAACTAAGACACTTAAGGACCACAAAAATTTAGACCAAAGTATCT  
TGTAATTTCTACCTGGTGAAAGTTTGATATAGCACACATATGACTTTTCT  
ATATTATTTTCTGTTTTGAGTTTAGTAGTAAGCAGATGGTTTGTATTTTC  
TTTAGTTGCAACTAAGTGATCAGTTTCATGATTTCTTACTATGAAACA  
TTTTTTTTTTTTTCTTAACAGTTATCTTA

>Sequence 913

ACCACAAAGTTATTGCCTACATCCAGGTCAAGAAGATCTTCTACTGTATT  
TTCTTCTAAGAGCTTTTACATATAGGTCAATGATCAATCTAAAATTAAGA  
GTTGTGCAATCATTAACCTTAGCTTTAGACTGGTATACTAATTGGTTTGT  
ATACGAACTGGGTTAAAGGCATAGGACACATGCAGGCTGTGTTCAATTCA  
CAGCAGGGCTCTGTAATTAGGCAATAATTACTTACCATCATACCTAGTGA  
GGCAATATGGGAGAAACAAAACAGGCCATACAGCTTCACTATTATTCCTA  
CT

>Sequence 914

AAAACCTTAGCGNGGNCGCGGCCGAGGGACTNGAGGACCAAGCCACAGAG  
CAAGCGCTAAAAAAAAGNNACTAGAACCTNACCACTGNNNCACGCACC  
CCAATTTCAATAAATGTATCAGTAAAAAAAACAATTATCTAAAGTTTTT  
TAAAGTAAAGAAAAAATTATTTATCACATAGGTAACTTGGTGTCAACTAGG  
TAACTGATCTATTTAATTTAGGAAGTTAGTGTCTTCTCCTCAATTTT

Table 2

CAGATTTTCTGAGGGGAGGCTCAAAAAGGCCCGAGAGGCTCTCTACAAGGA  
GAAAGCAAGCCAGAGAATCTGA

>Sequence 915

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ATTGTGGGTATATAGTAGTAAGATGTTTGACATAAATTACATAAATAAT  
TGGAGCAGGGAAATAGAAGTGTGTTGTTGAAATGGTTTGATATTATAT  
GAAGTGGTATATTATTTCAAGGTAGCCTTGATAAGTTAAAGGTTACA  
TATTGTAAACCTACAATAATCATTACAAAATAAGAGATATAACAGTAA  
GG

>Sequence 916

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TAATTCAGTAAACTCTGCTAAAAGGAAACGAGACTAGCTTGCTGTGGCC  
CCTTAAGCGACCCAGGGTAGCTTGTGATGGTTCAGATTATGATTTGTTCT  
AGAGCTTTTCCAGAGGCAGATGTTGAGGAGTTTATCCTATTTGTCCCTT  
CCCTTTAAACAAACAAAAGTGCCGGCTGGACGCAGTGGCTCATGCTGGTA  
ATCCAGCATTCTGAGAGGCTGAGGCAGGCGGATCACCTGAGGTCAGGG

>Sequence 917

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AACGATGACTGCAGTGGGTGAGGCTGTTTGTATCACATCACTTGAGAA  
CAGAGTAAAGTGAGTTTCATATTTCTGAGTCTTGAATTCTCATTITAG  
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>Sequence 918

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ATGGCAGTATGAAATGTGTCCCTGATTCCTCCGACCTGCCACAGAATAC  
TGAAACAGTGGCCGTGGGAAGAAATACCAGATGGTATGCATATGGCTTG  
GGAACAGCTTTCAGCAGTGGTCACTTGTCTTTTTTAATGCATTTCAAAA  
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>Sequence 919

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GAAAGGTGGTGTTCACATTTAGAATTTTTTTTTTAAGTTGCATGTTTAGG  
ATTTTAGTGCTCAGGAGGAAAGAGGCCAGTGTGCCCCTCCAGACCATC  
GCTGCCATTTCCCTGTAATATATCGTGTGTAGAGGAACCTAATGCCTGCA  
G

>Sequence 920

GGTACTGCTATTTCTAGTTCAAAATCACAGATTTTCAGATTGAAAAAAT  
TCAATCCACTTATTTTCAAATGAGATAACTGGGACAAAGAGAAAATCCA  
TGACTTGCCCAAGATTACCTACAGTTTAACTGTCAGCGGGGCTTAAACC  
ACAATCCACATCTCCTGACTCCCAATCCTTTCACTTAAACAAACAAGCA  
CACAAACAAAAAAGATTTCTAATAAAGTGGAATAATTTTAAGAAAGGCAA  
GTATCACTATTTTACAAGGAAAAAATTAAATCATTTTAAACAGATTGGC

>Sequence 921

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ATGCCAAAGCTATACACTCTCAGGGAATCCCTGTGGATTTCAGTGATGAC  
CACTTGACCAACTATCATAAAGATCAAGGCCAGGGGTTCTCAAACCTCTCA  
ACATTTGTGTGCTCATCTCCCTTCACCCAGAGACTCCCCAGGGCTGCTG  
GGCCACACTTTGGTTTGTGTTGACTGGAACATAGTTTGAAAGGGATGGAAA  
TTTCCAAAAGGTGTTAATAGACACATAAAGATTTTTAAATATTAATAAAA  
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>Sequence 922

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264  
Table 2

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CATAATGAGAAATTGGAGATGTAAAAGAAGGCTGAGTTCTAGGAGTTGCAA  
CAACTTAGGAGATAACAGAACCAATTCGGAATGAGCAGGAATTGTAGGAA  
TGCAGGCGAGGACTAGAAGAATCAGCTACATGCTGTTTACTGGCAAAGCA  
GGAGAAATGTGACTGAGGACAGTATGCCACTGAAAAGCTGATGAAAGAGGA  
GGGAGACAGGAGGA

>Sequence 923

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GGGACAGCTCAACATGGGCCTGGACAGTCAAAATCCATCCCCAAGCTTGG  
GACTCAGGGAGACCATCCAGTGACTGTTCTGAAGTGCTGGGAAGGCAGA  
GCTCCCTTTCTGCGGGTGCTGAGTGATGGGACGACAGTGTTGGAGCTACT  
GNGCTCTCCAAGCCGGTGCCAGGACCAGCCTGCCTGAGAACGAAGCCAG  
CA

>Sequence 924

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CGTCTCCCCACCTCCAGACCTCATTATATTATCCCGAAAAGAACACGAT  
CTCTTTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCACC  
AATTGGCAGGCCCATTTGGGTGATAAATGTCCAAGGACCTCTAGGCTGACG  
ACACATTTTTCATCATTAATCCAGCCTATTGTAACCAGGGCCACTCACAT  
TGATT

>Sequence 925

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GTATCCCGATTGAAACGGAGATCTAAAGATCTGAATTGCCTTTATCCAG  
AAAAAGACTTGTGAAATCTGAAAGTTCAGAGTCTCTTCTTCTCAGACAA  
CTGGTAATAGTAATCACTATCATCATCATGTGACATCCAGAAAGCCACAA  
ACAGAGCGGTCCTTACCAGTGACTTGTCATTGGTTCCAATTCCTAGCT

>Sequence 926

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AGTAAATATTGAAATGAATCAACAAAGTACCTCCCAATATAGAGAAATCAC  
TTCTGAAAAGGATAAAACCAAGTTGATCCTATTCAATCGAAGGCATCTTT  
TGGGGCTGTTACAGTTATTTCTTTATTTGAAGAAGGAATATGATATACC  
TACTTTGTTCCAAGTCACTGCTTATAATGTGCTAATGGTACCT

>Sequence 927

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ATCTCAACAACCTCAGCCAGAGTGTCATTTCTGTGAGAGAACAAGATT  
TGGGGCACTTTCAAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTC  
ATCTTCTGCTATATACTCCAAATATGCAAATGGAATTGAAATTCAACTTA  
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TTTCGAAT

>Sequence 928

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CACAAGAATGGGAGGATGCCAGTTCCAATGCTTTGTAAAGTCAAAAATAG  
CCACATTGCAAAAACAACAAAAAAGGAGAACGTTCCCGAGTGTGCCT  
CCAAAACATAAAGGAGAAAAATCATACAGAAAAACCTCATGTAAGGGTTGG  
AACTTGAGCAACCAGCTATCCAAATACAGAGGGGAATCCTCGCTTAGCTA  
GGGCATGGCCTGAGAGAAGCCCCCTTCTGCTTTCAGAGCCTACAAGTAGT  
CCCCAG

>Sequence 929

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TCTGTGTGTAAGGAGTGCTTGAGAGTCTTTAATTGTAACATTTATTAAAT

Table 2

AAGAATAAGAGGACATTTTTAAAGGAATTAAGGAACATTAATTCCTTCA  
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TGGGTAACCACTTAGGGCTGAATTCATAGTATAAATATCAATAAATGTTG  
CAATCACAAT  
>Sequence 930  
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CCAGGAAGGACCTCTCCCATCCTTGGAGCCTCCTCATTCTCCTGTCTCTC  
ACTGTCCCCCACCTCTACCATGATGTCTCATTCTGGGAACCCCGAGCA  
GGGATAGTGGCTTGGGCCCTTCGTCTGGCTTTTCTCCCCACACTTGCTTC  
CTTCTAACATTTTCTCCCTCATCTGACATGGAAGGGGCAATGGTTAACCC  
AGAAGGGAGGGCAGAAAACAATGGCCCCACATCCTGGCTCTGCCTCTGAC  
AAGCTGAGT  
>Sequence 931  
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GTGGAACAATCATGGCTCACTGCAGCCTCACCTCCTGGGCTCAAGAGAT  
CCTCCACCTCAGTCTCCCTAATAGGTAGAAGTACAGGTGCACACCACCA  
CGCCTGGCTAATTTAAAAATTTTTTTATAGAGACAAGGTCTCACTATGT  
TGCCACACTGGTAAAGTATTTTAAATTCGAGACATGAATAATGATGCA  
AATCATCTTTCTATGGGTCTGATTCTGTTCTGCTACCTATTCAAGGAC  
TAAA  
>Sequence 932  
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CGGGTTTTCGCCGTGTTAGTCAGGATGGTCTCCATCTCCTGACCTCCTGA  
TCATCCGCCTTGGCCTCCCAAGTGCTGGAATTACAGGCATGAGCCACCGT  
ATCTGGCCAGAGAAATTTTTTAATATAAATTTTTTCAGTTACCACTTAAA  
GGGAAATATGATTAAAAAAACTAAATAAAGAAGAGCTTTAGTAAACCAT  
GCCCTCTGCTAATCTATTAAGAGTCAAACTGAACT  
>Sequence 933  
ACAGTATGTTTCCACTTATGGACAGATAATTACGTAGTAAACATAGAAAC  
ACACGAACTGAAAGGACACACACCAGTATCAGAACTAAGTCACCCATGGG  
GAGGGACAGAAGGAAATAGGATGGAAAGGGGTGAGGGACTTCAACTGTA  
TTTGTGATGTTTTAGTTCTTTAAAAACAAAAATCTAAATGACATTTGAAAT  
ATGAAACAAACGCAGAAACATCAAAATGTCAACAATACTTAAACCTGAG  
TGTTGGGTGCCTGAATGTTATATTGGTCTCTGCAN  
>Sequence 934  
ACCCAGTATATGAGCAATTGCTCAGCAGTGTGTTGGATATAGGGAGTGGAT  
AGCTATTATTAATTGCAGATTATTTTGGAAAGGAAAAACACACAGAGAATT  
ATGTATCTTTCAGTGTAATGTTAGTTCTAAAAACAATCATATTATTAC  
AAAGCTGCAGTTATAGAACACAATTCTGATTTCTGCCTACCCCCACGGT  
TAATACTGTAACAACTTTCCTACGTTTCTGATAGTGTTATTAATAAT  
AGCTGTTATTTTAAATAGCTATACTAAACATAAAAAATGTTTAGGCCAGG  
CGTG  
>Sequence 935  
GGTACCTAATTCATAAGATAAGGATTAATGAATTAATAATATATAAATCC  
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ATGTTGTTGTTACTGTTATGGAATTTATCACAATATGTAATTATATGTT  
TCGTAGTGATTATTCATCACCCCTACTGGACTCTAAGGTCTGTGAGGATA  
TGTCTATTTGGTTTACCACTGTATCCTCAACAAGTCTGGTTGTCCCTAT  
TGTAGGTGTTAGGTATTAAGTGCATGATAGTGAATACATAAAGGTTA  
>Sequence 936  
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GGAGGTTGTGGGAACATATAGACAGTGACCAAACTTTAATGAATACAGG  
AAGATTTTCTGGAAAAGATGACATGTAGCAGACAGCTGACAGACGAGTTT  
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GTGTGGTAGAGAATAAAAGTTTTGAATTAATGTTGAATGAAATGTGTTA

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Table 2

TG

&gt;Sequence 937

ACACTAAAAATAGAATATAAGGCAGTGAAATCAAATCCTGGCTCACTTGA  
AGAAATAACAGTCTGTGGGCAACTGGTTGTTTCTCAGGTCACCTCAGGGG  
ACAGATGGTCCCTAAGGTGCAAAAGAATGAACTGGTGCTGATATGACT  
GATAAGTTTCTGTAAACGGGCCACTGACCATTTCAATTCCCAAGGAACATA  
AATTACCTTTTAGCCTGTGTATTTACACACAAATATGCAACCTGCAAACT  
TCTTCTGAGGACAGATGTCAACTACTTTTTTCATTTTTTTTTTACAGTCA  
AAG

&gt;Sequence 938

GGTACCAAGTATACTTCACCAGATATCTATAGAACATTCCACTCAGCAAC  
AGCAGATCCAGCAGAATATATATTCTTCTGAAGTGTATGTGGAACATTC  
TCCGGGATAGACCATATGTTAAGTCATAAAACGAGTTTCAATAAATTTAA  
AAGGACTGATATCATACCAAGTATGCTCTCTGACCAGAATGGAATGAAAT  
TAGAAATCAATAACAGAAGAAAATTTGGGAAATTCACAAATATGTAGAAA  
TTAAAAAACACACTCCTTAAACAACCAAGTGGGTCAGAAAAGAAATCACAA  
GGGN

&gt;Sequence 939

CCCTTAGCAGCGGCCGGGCCGACGGGCTCTTCTTCCATACTCTTTTAATT  
GGATATGCCAGTGTGTCTCAGTAATTTCCAGTGGCTGTAAAACCTTTGAGA  
AATTTTGTAGCTTTTAGAAACCATACCTGTATTGCCTGATTGCTTATT  
AAGTGATCTCTTAGAGGTTTCCAAAGTTATGAGTTTGAGTTTACAAGTGC  
AGTTTTTTTCCATGAAAAATTTCAAGTGGTGACAAATTATAGAATTTATCAT  
TCAATTCAGTCTTAAGTAGAAATAATTGCATATAATAAACAGGTTCTTG  
ACTGTTCTTTTT

&gt;Sequence 940

ACTGCCACTTCCATTTTGTAAAGTGAAGCCAGAGAAGCAAAGAAATGTGC  
CCTAGGTCACATAGCTAGTCGGTGGCAGAGCTGTGATTGGCAGGTTGGTC  
GAATGCCTCCAAAGCCCTCGACCTTCCCACTATACTTCACGCATCTCTAG  
AGAAGAGACAGAAGTAGCCAGGATGAAGGTCTTCAGGTTTAAAGAAGAACT  
ATGAAAAAGCAAAGATTTTTGTTTTTCGTGGTTTTTTTACTATAAAGGAA  
AACTTTAAATAATAGCAAGAGTGCTATAGGTAAGATATCAGAA

&gt;Sequence 941

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TGATATCAAAGGAAGTATCAAACCCTTGATGTGGTTAAGAGCATGGATA  
GTGAAACTAACCTCTGATGTATGGTGAGAGAGCAAAAGAGAAAGGATTGC  
AAAGAAACTGGAATGTAGAGGATGAACATATTGGTAATAATAACTGGT  
GGAATTGTTATTCAGGAAAAAATAGCAATTATTCCTGTTTCATATCTCAA  
TCATTGTATGTTGTTTATTTAAAGGGAGACATGGTAGAAGATATCAAATA  
TAAAAAT

&gt;Sequence 942

GGTACATGAAAAATGGCTGTTTTTCCCCACATTAGTCAGCTCTGGATTTTG  
CATGTGTGGGGCTTTTTTTTTGATAGTTATTTGTTTTTATTTTAAAAAT  
TTATTTTGCCAACCCAGTAGAGAACAGCTGAGCATCTTCTCATGTATTTA  
TTGGCCATCTGCATTTCTGCTGCTTATTGGCCATGTATTTATTGGCCATT  
TGCCGTCTGCTGTGAAATGTCTTAAATTTTTTGCCATTTTTCTAGTGAT  
AAAACACTGAAGCACATTTTTAAAGACTTCTGATGATTTTTATTGTC

&gt;Sequence 943

ACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTGTGTTCTATAAATGT  
CAATTTAATCCAGTCGGCTTATGATTTTCAGTCTATATTCTTACTGATT  
AATGTGTATATACTAGTTCTGTACTAAGGAGGGATGTTAAATTAATCCC  
TAGCTGTAATTGTGCATTAGTTTGTCTCTTTTCAGCTGTTCTAGCTTCAT  
AAATTTTTGGAGCTGTTAGGTGCATATACGTTTAGGATTATTTTGTCTTC  
TTGGTGAACAGACCTTTTATCATTAGGAAACT

&gt;Sequence 944

GGTACAAAAATCAACTTTCCTTTTTTACTATCTGGAAATAGGAAAATGTTC

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Table 2

CATTCACTATGGTGACAAAACCTGTAAAATAGGAATATATTTCTGAGGAAA  
GTATAGGTATTTACAAATAGATAAACTATATTCCTTAGATGAGAATACTTA  
ATACCCACTTTACAAAATTAATAATGAATTACAGCTTTTTAAAAATAGAT  
TAAGCTGGGTGTGATGACATGGCACCTATAGTCACAGCTACTCAGAAGGC  
TGAGGCAGGAGAAGCACCTGAGCCCAGGAGTTTGAGGCTCTAGTGAGCTA  
TG

>Sequence 945

ACCTGCAAGTCCAAAGAGGACCAGGAGGATCCCCGCCAAAAGAAGGGTAA  
TCGATGGGACACCAAAGTTATCAGTCAAGTAAGGCAGAAATGCTTGAATG  
AATAAATGTATATAGATAGAAAGTAGAGACCTTGATAAAGTCAAACCTCT  
TGCCTTTACAAGTGTGTGTTTCAGCAGCCATGCAAGGGAGATGCCCATCTG  
GCAGTGGCCCAGGGCAAGGTGTGAGAGCCCTAGTGGCAGGGAGATGGCAT  
CCACATATGAGGGAGGGTGACATGGTGCTAACTGGGCATCTACATAGGGC  
AGGG

>Sequence 946

ACTGCATATTTAATGAATTATTTTATAAATTGCTGTTGTGAAGCATTTGT  
GAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTGACTTTTAT  
TGCAACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAA  
GAAGCATTTCTGGGAGGTTTCTTTTTCTGGTTATGAAAATAATATATGC  
TTATGGGGAAAAATTGGAAAATAGAAACCAGTATCTAGAAGAAAAATCAC  
TCATAATTCCAGCACCTGTTAATACTTTGTCTTTTCTTACAGTTTCTAA  
TA

>Sequence 947

GGTACCAGTAGATGAGAACTACTTATTTAGAGTGGCAGAGCATGCTATAG  
AAACAAAATATGAGTAATTCTAACTGTAGTTATGTTATATTAGCATAGTG  
AGATAGTAACATTAATAGAATTCCTTAGGTGGAATTTCTTTAATGCCTTC  
AGTTTCAATTTAAAAAAGTGTATGTAGAAGAGGGAGTGAAG  
GTTTGTAGAGGTAAAGAGGGTGAGATTTGATGGTATTTTTTTAGTTAGG  
ATGAGATAGTAGAGGTAGAGGTTATAGGGAATGTAGGTTGTAGTTTTTTA  
TTTN

>Sequence 948

GCGCCTTTCAGCGGCCGCCGGGCAGGTAAGTATTTAATGAATATTTTA  
TAAATTGCTGTTGTGAAGCATTTGTGAATGACCTGCCTCCTAGCTTTCAA  
TGCTATTGCCAGGCTGACTTTTATTGCAACTGTTTTATGATACAGTTTT  
GCATTGTATGTGTTTACTTTTTAAAGAAGCATTTCTGGGAGGTTTCTTT  
TTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAATTGAAAAATAGA  
AACAAAGTATCTAGAAGAAAAATCACTCATAATCCAGCACCTGTAAATA  
CTTTGTCTTTTCTTACAGTT

>Sequence 949

ACCAAGAACTAAATTGTGATACGATAGGTGACTTATGAGTAGCACAGAAT  
GTAATAGGCCCATCTCTACCTAGTTCTGGTCACCACACTTCTGTCAAGGT  
AGCTCGGAGAGACGGTGTCTACTTATTCACCACATCATGAGATCACCTCA  
AACTGAGCAGGCAGCCAATGAAAACCGTGAGCTTTCTTTACATTAACCTT  
CTGAAAGTCATTTTTTTCTATTCCACTTTGTGCCTTTTTTTAAAAGCTGC  
AGCTTCATGGAATTTAATCCTGGTATTTAAAACACTT

>Sequence 950

ACTTGGTAGGTTGATCTCTTTCATTCTCATGGTTTAATTACCATCTATT  
ACTGATTACTCCAAAACCTGTATCTATAGTCCAAGACTGTTTCTAAAAGG  
TCTGCACCCACATATGCAAATAAATACCAGATATCTCTCTGGTTATATT  
GCACATATNTCAAACCTCAATANGTTCAAAACCTGAATTCATCTTCCCCCT  
AAATGTATTTTTTCTTCCCCCTCTTTTGATAAAAGGGATTACCAAAAACC  
CCACCCGCCAGGTTAAAAACCTGGTTTGAAAAAATTATTGTTTTTTTAC  
CCTTTTTTAAAAGG

>Sequence 951

GGTACTCTTAGGAAAGAGTAATGGGGTTGAGGATGGTTAATTTAGCCCAT  
CCTAACTTCTGTGAGATTTTTTTCAGAATATTTTGGATGGTTCTCTCACT



Table 2

TTTGTTATTAAGCATTGTTGGGAAGAAGATTCTGCAGCCTACTCAGGTGAGC  
CAATCTCATGGCATTGAACAGAGAAGATATGTTTTACGTCTCTAACCAG  
TGTTTTTCATAGTGTAAGTCAGGCCTTTCTCCTTTGATCTAAGTGGAAACC  
AAGAGGTTAGATACTCCCTTTTCTTTAGTTATATAATGGGCTTCATGTAA  
CTA

>Sequence 952

GGTACACTCTGTAGGTCTACAGGTAAAAAGCTATTACGTTGCAAACATTA  
TAACGTAATGTAAGGTCTGGATTACATGCCTAAAAATCCAATGATTCTTG  
GAACCATCAAATCTGTGAAGACTGAAAAGAATACCAATGTTTAAATATAT  
CTATAAAATGCAGGTCAAGGGGCTAAGAAAATTGCAACACTAGAAAACCA  
ACAAACTTAGGTTGTTCTAACATACATACACAAATACAGGAGGGACGTTT  
ATGGGTCACATCTGCGAAACATTTTTTCCAAAAAGCTGAATTTTT

>Sequence 953

GGTACCACCAATAATTATGCCACAATTTTATCCTAAATAAGAGTGATTCT  
CCTGTTCTTTTCTACAGAACATGTTTCTGTCCGCAAAGAGAATAAGAA  
AACATGACCCCTCCATCCAGAACCCTAACTAACTCAGGAGTGATTAGAAT  
CACCTGTGGGCATTTTCCCCCAAACCCCATACTCTGTAGATTCTGATA  
AGCGCTCTTAAAGAAGCTACAGCTCTTCCCCATCCCTATCTGAAAGCAA  
GGAACCACTGCTTTGGTCAGGAAACAGGCATACAACATCAGATGTGATTA  
TAAA

>Sequence 954

GGTACCAGATGTTGTAAAATTTACTATAATTAATAGGAATTAATTAATGA  
ATGCCAAGGGGCAGAGCCACACTTCCTATGATAGTTCCCTTGCTATAAGGT  
GCTATTTANNGTTCTCTACATTTACTCCATAGTAAGCTGTTGTTTGAGAA  
AAAAAATGCCAGTTTGGTGCGTAGTAGATACGCAGAGGCTGAGAAAGGAA  
CAGATTACCCATTACCCAATGGTTACAGAATGTATAATGCTTCCCTTAA  
ACTGGTTGATTTGTTTTTTTACA

>Sequence 955

GGTACCTTTAAGCCAGATTCATGGTATGAAGGCAGCAGCATAGCACCTCC  
ATTGACCCACATGGGGGCCTGCCTTGGGCTTCATCAGCCCTTTGGAGTCT  
CAGATCCCTCACCTGTAAAGGAGAGTAATACTACCCACTTACCTTTTTG  
GGTTGTTGTGAAACACACATAAGACAGTATTAGGAGAAGTAAGGTCTGAG  
GGCTGGGCTTTGGACCCAGCGGCCCTAGGTAGAGGCTGTTGAATTGGA  
TGACAGTGAACCTTGCAGCATTTCTAACCTCAGAAGTTCAAGAG

>Sequence 956

GGTACTTCTGCTTTATTCACTAGGTAAGAAATGTAATGGATGTGTGCA  
GGTGACATAATTTCAAGGGGATAAGGTAAAAATTAGATGAAGCCCAAGCAA  
ATATTCCTAAAAAGAAAACTTAGGATTTTTTTTACAAAAGTTAACTTA  
AAATGCATTATCTAGAATAATGTTATAAATCAACGTATAGAGACGTTAGT  
GAATAGTTCCCTTCATTAGGATGTTGAAGGAATATGGTTTCAATATTCAA  
CAAATGTCGTGATGCCTATAAATTTTTCTACAAACAAGAGTATGTT

>Sequence 957

CCCTTAGCGGCCGCGCCGGGCAGGTACTTCAGGAGATACATTCTGCTAGTT  
TGGGGTGGTGTGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATT  
TTCAGTTCTATATTCTTACTGATTAATGTGTATATACTAGTTCTGTTACT  
AAGGAGGGATGTTAAATTAATCCCTAGCTGTAATTGTGCATTAGTTTGTC  
TCTTTTCAGCTGTTCTAGCTCCATAAATTTTTGGAGCTGTTAGGTGCATA  
TACGTTTAGGATTATTTGCTTCTTGGTGAAGTACCTTTTATCATT  
GGAAACTGTCCATATAACCACT

>Sequence 958

CCCTTTGAGCGGCCGCGCCGGGCAGGTACTCCATAATATAATCTTTTAAAT  
GGGCAACTTCTAAATATTGATACAACCATTAATAATAATGCTTATAGGGT  
AAAAGAAAATTTTGAAGCACTGAATTCAGTAACCTGGGTCATGGTCCAA  
TTTTGCTCACTACTCATATCTTTTATGTAGATTATTCCTATAAACATGT  
TCCCTAAATTCACATCAGTTTGTAAGTCAATGGATTAAATTATTCAA  
TGTAGCTATTTAACGGTCAGTAACAATGCCTAGAAACCTATT

Table 2

## &gt;Sequence 959

GGTACTTTTTTTTTTTTTTTTTTTTTTTTAAAGACAGTCTTGCTAT  
TTTAAGTCCAGGCTGGACTCAAACCTCTGAAGATTGCTCAAGCAATCTTC  
CCACCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGATGTCCAGCTTA  
GGTTCCAGCTCTTAAAAGAGTTGTCAGTGTGGTGGGCGAGGTGGGTGACA  
TACACATATAATTATAAGGTAAAAATCACAACCTACTACAAGAAAGGTGC  
AAACATTTATGAGAAAACCAAAGAAGGGAN

## &gt;Sequence 960

GGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTAT  
CAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTCATCTC  
TAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGA  
CAGAGGGATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAA  
TAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAATTTAG  
CCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTG  
TAGAGAACATGGATCCTGAGGGGTAAATGGCAGATAATCTAGCACAGAT  
TGG

## &gt;Sequence 961

GGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTAT  
CAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTCATCTC  
TAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGA  
CAGAGGGATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAA  
TAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAATTTAG  
CCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTG  
TAGAGAACATGGATCCTGAGGGGTAAATGGCAGATAATCTAGCACA

## &gt;Sequence 962

GGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAA  
TGATGCATATTTTTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCA  
AGCTTGTGCTTCTGGATGGTTGCTTTGTCAGTGAACACTTGGATTTGGAA  
AATACAGCACCTGGGTTGGTTTGTAGAGAAAAATGGTTTCAACTTTATAAT  
TACAGTTTTAAACCACCACAACAACAAAATTAGGATGGTAGTGAAATGGAA  
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAAATGTCATCCTTTAAT  
AATCTTTAAAGAAGAACAACCTTAATAACCAATAACAAAATTGAAATAGGT  
CAACTT

## &gt;Sequence 963

GGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAA  
TGATGCATATTTTTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCA  
AGCTTGTGCTTCTGGATGGTTGCTTTGTCAGTGAACACTTGGATTTGGAA  
AATACAGCACCTGGGTTGGTTTGTAGAGAAAAATGGTTTCAACTTTATAAT  
TACAGTTTTAAACCACCACAACAACAAAATTAGGATGGTAGTGAAATGGAA  
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAAATGTCATCCTTTAAT  
AATCTTTAAAGAAGAACAACCTAAATAACCAATAACAAAATTGAAATAG

## &gt;Sequence 964

ACACTGCATAAAGCCAGAGTTAAAACTTCACTGCCAGCCTCTGAACAGAA  
GGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGCAACTGC  
TGAATTACCATACAGGGAAGAATGAATTCAAGAAAAATCCCATGCAAGAT  
AGGCTCTTAAAAAATAAATTTACACAAGAAAAATCAGCACTGTAAAGGTAA  
TTGATAAGCCCAATAGAAGGGAAACCTATACAAAGAAATAGAAATAACTA  
AGCAATCTGAAATGGACTTTAAATAATGATGT

## &gt;Sequence 965

ACACTGCATAAAGCCAGAGTTAAAACTTCACTGCCAGCCTCTGAACAGAA  
GGCTGTTCTATCCACACTATCACAACCTGGTGGAGTTGAGGCAACTGCT  
GAATTACCATACAGGGAAGAATGAATTCAAGAAAAATCCCATGCAAGATA  
GGCTCTTAAAAAATAAATTTACACAAGAAAAATCAGCACTGTAAAGGTAA  
TGATAAGCCCAATAGAAGGGAAACCTATACAAAGAAATAGAAATAACTAA  
GCAATCTGAAATGGACTTTAAATAATGATGTTTCAATTCTCTAAGAGGA  
AAAGGAGCATTAGCATCAGTGAAACAAAAGTAGGGCTATAGAAAAACAA

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Table 2

TACTTATGAAAAAACCAATTGGAAATTTTTAGATGGAAAAGCGTGAAATA  
AAAAATTCAACACATGGTCTAAAGAATAAACTGCACACAGCTGAAAAGGAA  
AATTAGTTAATTTTACGAAGAAACAATAAATCTCACAGAATGTNAAAGAG  
ATAAGATATTTAAATAAATCAGAGTAAAGAGATATTAACCTATATACAT  
TTGAGTATATAAAATCCATATGGTGATATGGATACATATATATACCAGAA  
GGAAGGACAGAAGAGATACAATATTTGGACAGAACATGGCTAATTTTTCA  
GAATTATTTAAAGACTTGAGCCCTTGAAACAGGTCCAGGAGTACCTTGGC  
CCGGAACACGCTTAGGGGCGATTCCAGCACACGGCGGGCCGTA

&gt;Sequence 966

ACGCGGGTCAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAGAA  
AACTTAAAGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCA  
ATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACAT  
GAGCCATCATGAGGAGAACAATTAGCAGAAACCAACCAGAACTGACATA  
CATACCAGAATTGGCACACAAAAGGATATTTAAACAATAACAACCTGCGTT  
CCATATGTTCAAAAAGTTAGAAACATGAAAGAT

&gt;Sequence 967

ACGCGGGTCAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAGAA  
AACTTAAAGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCA  
ATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACAT  
GAGCCATCATGAGGAGAACAATTAGCAGAAACCAACCAGAACTGACATA  
CATACCAGAATTGGCACACAAAAGGATATTTAAACAATAACAACCTGCGTT  
CCATATGTTCAAAAAGTTAGAAACATGAAAGATACAAAAATAAAATCAAA  
CTTCTAAAGATGAGAACTGTAGTGTGAGGTGAAAAATATGCTAAATG  
GCATTA

&gt;Sequence 968

ACGCGGGCGGTCTGTGCCCCATCACCATTCTAAAGCACCCCTACCCTCAT  
GGCAGTGTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGT  
CAGCTGACGTCTGGCACCGCCTGTGCTGGTGTGCGCTAGCCTACTCACTC  
CCTCGGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTTAAT  
GGAAAGTATATAATCCCTTAATGTCAGACCTTGAGTGGCACTCAGCTTTA  
TTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATTTCTCAGTAGTC  
CTGGGAGCTGTATTATTTTAAACATCTTGCACAATGTCTG

&gt;Sequence 969

ACGCGGGCGGTCTGTGCCCCATCACCATTCTAAAGCACCCCTACCCTCAT  
GGCAGTGTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGT  
CAGCTGACGTCTGGCACCGCCTGTGCTGGTGTGCGCTAGCCTACTCACTC  
CCTCGGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTTAAT  
GGAAAGTATATAATCCCTTAATGTCAGACCTTGAGTGGCACTCAACTTTA  
TTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATTTCTCAGTAGTC  
CTGGGAGCTGTATTATTTTAAACATCTTGCACAATGTTTATAGTTCTGCG  
TGTT

&gt;Sequence 970

GGTACCAAGATTATGATAGCCTCTTAAAACAAATTGGAGGTTATAACCTT  
TTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTTCTTA  
AGTTTTTGGGTGAAAAGTACCCAGTGAAGTCATTGTGGGTTTGGATTTT  
TCTTTGTAGGAATGGTTCTTAAATTTACTAATATAGCTTTTCCAAAATA  
TGTTAATGAGTAATTATTCAGGGGTTTTCTATTATCCTTCCCTTGTTG  
ACAAATTTTTTGTCTGGTCTTTTGTACTTATAAAAGATATTGATTCCAT  
GCCTAATAAAGTGTCTAAATTAATTTTATTTGGGATATCTAATTCCTTA  
TTTTTCCAAATATACGAATTCCTATGTATATATTTATTTTACCAAAGC  
ACCAAGTGAATACTTTTAAATGGTTCTTTAAAG

&gt;Sequence 971

GGTACCAAGATTATGATAGCCTCTTAAAACAAATTGGAGGTTATAACCTT  
TTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTTCTTA  
AGTTTTTGGTAGAACTAGCCAGTGAAGTCATGTGGGTTTGGATTTTCTT  
TGTAGGAAGGTTCTTAATTACTAATTAGCTTTTCAAATAGTTATGAGAA

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Table 2

TATTCAGGTTTTCTATTTCTTCTGTGTCAATTTTGTGTCTTTTTCTAT  
AAATTTGTTTCATCTATAATTTTAATATTTTGGTATAATTTTTTCAAAA  
TAATCTTGATTTTATTTACAAGACAGGATCTTAATGTTTAATGACAGGAT  
CTAT

>Sequence 972

GGTACTCCAGCCTGGGGGACAGATTGAGACCCTGGCTCAAAAAATTTTTT  
TGATTATGAGNNNGANGAAGGAAAAGAAAAGAAAAGAAAAACAAGAAAT  
TAGCTCATGAATAGCCAGCTTATATTATAATTATGTGACACTTTGGATA  
TTCAAAGCACATTACAAAAGGGTATGTCACTTAAATACCTCAAAATTTTC  
CCTGTTATACATGCAGATCATTCCCCATTCAGCCCTGGTATGGACTGAAC  
TGTGT

>Sequence 973

GGTACTCCAGCCTGGGTGACAGAGTGAGACCCTGTCTCAAAAAAAAAAAAA  
AAGAAAAAGAAAAAGAAAAAGAAAAGAAAAGAAAAACAAGAAA  
TTAGCTCATGATAGCCAGCTTATATTATAATTATGTGACACTTTGGATATT  
TCAAAGCACATTACAAAAGTGTATGTCACTTAAATACCTCAAAATTTCCC  
TGTATACATGCAGATCATTCCCCATTCAGCCCTGGTATGGACTGAACGT  
TGT

>Sequence 974

ACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTATACAAACCTAAACTGT  
CTACACCCAGACTTTATTCTTCTACAACCAAATTCCTCAAACACACAATT  
CTGGAACAGTAGCCAGTGAAAAGGGGAGTTTTAAGGGTGGGGGTGGAGGG  
AAGAAGGGATTTAATATTTAATGGTTTATATTAGCTGTGTGATGGATTTA  
TGAATTTTGTTCGTATGTAATCAATGTGTGTGAATATTGTATCTATATTT  
AATCTTATTGTATGTATATAATGTAATGTTCCGTATTCGCTATTTTGATA  
TTAATAAATGATATAAATTAATGGATAAATTCAAACATTGATCCATAGCT  
TCTGTCTATACAGTAACAGTATTTTCTATATAGTTATATCTCTAGTCATG  
CTTTTTCTTCTTATGAATCTTTTAATCGC

>Sequence 975

GGTACGCGGGCTACCAAACCTGCATTAAAAATTTCCGGTGGGGGCGACACA  
ATGATCTTATCTCTAACCTCCGAGCAGTACCATGCTATATTGGTCACTGT  
AGCTCTGTACATAGTTTGGAAAGTTGGGTAATGTGATTCCCTAGCTTTGT  
TAGCTCTGTTGTTTTCACTTAGTATTACTTTAACTATTAGGGCTTCTTTT  
TTGGTTCCATATAAATTGTAATAAATAAATTTTCCAGTTCTGTGATAAAA  
TCTCAATCGGTAGTTTGTATATGGAATAACCATTGAAATCTGTTACCTTGC  
CCCGTGGCGGTCCGCTTCAAAGGGCCGAATTTCCAGCTATCACCTGGTC  
GGTCCGTTTACTATATTGGATTTCCTTA

>Sequence 976

ACCTCTCATTGTGCACTTTTCAACACTTCCTGGCAAGCAGGCATCATAAC  
TGGTCCTGCTGGGTGATCCAGACCACACTCTGCAACTCTTCTTCTGAGC  
CAAGCTCCCCTACTGTCTTTTCACTTTATGTCAAGGCAGGGGAAGAACCTC  
AAAGGGCTCTTGCACTCCAGTCTCACTTCCCAAAGAGGCACGAGGCCCTC  
CAGGATGTGGGGACAGGAACTTTGGGGCAAGCCGGGGCTGTCCAGAAGAT  
CACCAGGAGGGCCTAAATTGTAGAAAGGAGAGTCCTTTATTGGGTGAAAT  
GTTTGGCAACTGGGAAAAGATTTGCCTCCCATTGTGGAAGCAC

>Sequence 977

GGTACTTTAAAAAGTAAACAAATTTAACTGAAGCATGGCTATTAGTTAGT  
GATTTCTTTGTAGATTTTCTGGAAAGTCTTGTTGTTTGTATTAAACATTA  
ACTCTGCTGTATGCTGTAAATACACTGCTAAGATCAATATTGAAAAACGA  
ACAATAATACCAATTCATATGGATCTTCAAATTAGTCTTATAAAATTTTA  
TGATATGGTATTATCCAGCCAACCTGACTTTGAGACTGACAAAATATTCTA  
ACTTTAACCAGGTGATTCTTGCACTCTTTGGTTTAAACCTCAAGTTTAA  
AAATATCTTTATATTTACATTTAATTGTCATTAATCA

>Sequence 978

ACGACTTCACAACCAACCAACAGGTCTCAAGGTCAAAAAATGAGCTAGG  
AGTAAAGTATCTGCTCCAGAATCTACCCCCATCCAGAAAGAGCAACCCA

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Table 2

ACTGTGCTCTGAGTGGCTCTTAGAGTTTAAGACTCTGAATGAATGCCTAA  
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AGGCTGACTGCCAGGATTTCAAGTCAGTGATAAATTTTTAATTTTATTA  
TTTTTTTCCCCCGGTACCTCGGTCCGCAACCACCGCTAAGGGGCGAAA  
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>Sequence 979

ACCTGGCAGCAGAGTAGGCACTAATATGTGTTGAATGAGTAGGTGAAATA  
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AAAGAGCAGTAGACCAGGAGTCAGACAGTCGAGGATCTCATTCTAAATTT  
GAAGGTGAATAGCCATGTGGCTTTAGACAGGACTCTGAACCACTTGTTT  
TCTTATCTGTAAAAGGGGGAAGTCATAATAGCTACTCCTGCCTAACTCAT  
AGGTTGTTGAGAAAAATGAAGTGATTCA

>Sequence 980

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GGGGAGTGATGGCCACTAGATGACTGGGGACAGGGGCTGGTGAGTGAGCG  
CAATTATCTATTTAAACAATCAGAAATGCTCCCTAAATTACAAGTTTCTA  
GTTAAATGCAGTAAGAAATTTCCCAACAAGCTCTGCAAAAATAAGTTCTGTC  
AATCAAACTCTTACATGATGCATTAAGTCTGAGCTATTTTAAAAATACTACCAT  
GAATTCATCTTTAAAGTGTGACTTTGTAAAGCAGATAATCCTCCTGTT

>Sequence 981

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GCTGCCCTGCCACCCCATAGAAGGGCTATCCCTCCAGGTCAGGTTAGC  
ATCATCACCTAGAGCCAACAAGTCAAGGAGGTGATGGTTTGCCTTTGACA  
TCTCTACCCAGACCAGACTCCACTGAGAAGACTCTCCCTTTTTTATCACT  
GCCCTACCTAGTTAGTTGGTCCTGCCCTGGGGCCAGAGTTTCACTAGTAG  
TATAC

>Sequence 982

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AGAGAGAATGGGTTTCTTTAATTGCCAGATTGTCTGAACACAGCCTCAGC  
TACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATT  
CTTGGGGAAAAAAATTAGCATTTCAGTGCCAGCTCTCTAAAGTGTGGATT  
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AGTAAGATTTATTC

>Sequence 983

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TTTTCTTTTCTTTTAAACTCAGAAGTTAAGTTCCAGCTTCAGTGGCT  
ATGCCAGATGGTCTGATTCTGAAGGACAAGAGAATTCAGTGGCATAAGC  
CCTGTGCTTGGCATGTAGTAAGTTCTCAGTAAACTTTAGCTGGCGGGATC  
ACTGAC

>Sequence 984

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ACAGGTGTGAGCCACCGGCTTGGCCGAGGACACTATTTTTTTGCTTTGG  
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CTTCTATGACTACTAAATTTCAAGCAAAGAGAGCTGAGTTGGGGGTAAAA  
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>Sequence 985

GGTACTTACTTAATTTTTTTTTTTTTTTTATAGTAGAGATGAGGTTTCACC

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Table 2

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TGTGTGTGTTTTTTTACTTAAAAATTTTAAATTTAAATTTAAATGTTTA  
ATTGACAAATAATTTTATATATGGGGTATAATGTGATGTTTTGATGTATA  
CATTGTTGTATACGTTGTAATTGTATACATTGTGTTGTATACATGGATGT  
ATACATTGAAATTATTGTATCCAGAAAAATTAACATATCCATCACCTCAC

>Sequence 986

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TTTTTGGTCCCCTAAAGAGTATTTATCATCTTAGATTTCAGCTTAAGTTGT  
GGACAAATATCAAGGGGAAAAGTATTTACAGTTAACGTTGGAATCACACG  
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AACT

>Sequence 987

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CCACTACGGCACGCATCACACGCCAACTACTCACCAGTTCACGTTTTCCG  
CCCTCTCTCCCACTTGCCCAATCACAGAGTTCCTAAAGAACCAGGACTAT  
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CCCGGGCGGCCG

>Sequence 988

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ATATGGAAAGATTTGCAAAATATATTGCTAAGATTAAAAAAAAGGAAGGG  
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T

>Sequence 989

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ATAGGTGTGAGCCACCCTGCCAGCCTATGTTTATTTAGATGTTCAAAA  
CAACAAACAAAAATAACACACTAGAAAAAATGATCAGAGAATACGTGTTA  
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>Sequence 990

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GAAAGTTGAGTTTGGATGCCACAAGATTATTGGAGTAATAGGAAGCTGTG  
CACAGTGGCTCACACCTGTAAATCCTAGCACTTTGGGAGGTTGAGGCAGTG  
AGGCATTAGGATTGTTGGAGCCTTGGAGTTTGTAGACCTGCCTGGGCAAA  
CACAGGGAGAATCCTGTCTTCTTCAATTAAGTAAAAATTTATAAATGGAATT  
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CCTTGTA

>Sequence 991

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AAAAAACTCCAGCATATACATTGAGTCATTTGCAGGTTTGGGAGGGGGG  
GAAATGCTTTTTTGTATTAGGAGAAAGGGAAGTTTCATTTTAAATGTCT

Table 2

ATATTACTTAAAGTTTGCAATAAATATTTATTACTTTCAACAGTGAAAAA  
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>Sequence 992

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TGTTTTGCGACCCG

>Sequence 993

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AGAGCCATGCTTTTGGCTTTTTCACAAAGAGAGTTGCTCTTAATAAGGCG  
CCTGGGTGTAGTTTCCAAACCTTTATTTTCTACTTGACTGTCCTGGA  
TATGTTGGCCTTTGAAAGTTGGTTTAATTTTAGTAGAGGAAGAGGTGTTG  
GACTTTGGAGTAGTGTAATGTTTACCCTTTTGGCCCGTTGGAACCACT  
GCCTTATGGGGCCGAATATTTCCAGACCACAACCTGGGTGCGGACTCGT  
TAACTTAGTTGTATTCCCTGTGGCATTGGGGTTACCCCAAAGCTTTT  
GGTCCGT

>Sequence 994

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TCAACAGGTCTGAGTTGGGACTAGAAAATATGCATTGCTAATAGGCACCCT  
GACAATCCGATGTAGGTGGTCTTAGAACATATTTTGAGAAATATATTC  
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CCGCTCGAAAG

>Sequence 995

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GAAGCAAAAGACATGCCATAAAGATGATATTTCCACAGGAACGATATTA  
GAATTATGTGATGCAATCTCATCCAAGGTCATGGTATCAAACCAGACACA  
GCTAANAATGTATCATAATAGCAAGGATACAGTAGCAAGGATGGGCCTCA  
ATAAACATTTAAAGTGGA AAAAATTTCTTCTCTAACTCATATCAAGTACCTG  
CCCGGGCGGCC

>Sequence 996

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TTCTCTAAATTTCCGGACCTGATGCTAAGGAATGTGAATATACAGTTAGG  
TTCCTGCGAACCCCTGTGTTGGTTCAAAAAGGCTGGTGAGGGAAATTTAT  
GACACTAAATGCTTATATTAGAAAAGAGGAAAATTGGCCGAGCACGGTGG  
CTCATGCCCTGTAATCCCAGCATTTTGGGAGGCCGAGCCAGGTGGATC

>Sequence 997

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TATTGGTGATAGTGAAAAGACCAGACAGATGACATTACTTCCAAATTTTA  
CCAATCTAATTGTTTTTACTCACACCTGTAGATGTCACTTTAAAAATGTG  
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TGGCAACCATTAAGCTCTCTGTTCCCAACTCTAACAATATGTGGTAATG  
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TCCAAAGTGCCATAAAAAGGATATATTTATCTGAATGGTCTATATACTA  
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275  
Table 2

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>Sequence 998

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TGAGAACCACTCTAGGGTAGTATGTTTCCAACAGTTTAGGTCATGAGCAA  
CCTTGAGAAATACACTTTTAATCATGACTCAGCACACACACTCACATGCA  
CGTGTGACTTAGACGTTCCATGAAACAATGCTTATCTTACAGTGTGTTTT  
CTGCTCTGGTATTTTTACTTATATTCTATTAAATAGATATGTGTGTATAA  
ACTTATTGATATAAAAAATGTGGTCATGATCCACTAAAGTGATTTTACAAG  
CCACTAATGGG

>Sequence 999

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GTATAAACTGCAATTTTGTCAAGTTTGAATAAGCCCATTTGAATGAGTCAA  
ATTTTTTAAAGCCTCGAGATCCAACAAAGCTGGAAAAAGTAGGGGTGG  
GGGTAAATGGTTCATTTGAGATGTTGGCCTTCAGTACCATGAGAGGGAA  
AGCAGAACAAATGGGN

>Sequence 1000

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ATTATTTCTGTGGCATTATACTATGCCCTTTGTCATATGCTTTTTTCC  
CATAGAGCATTTTTTCCCATAGAACTTTGTATTCTCCACTTCTACCACC  
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>Sequence 1001

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TTACATCTTTTGTAAATTTATTCCTAATACTTTGGATTTTGACATTATC  
ATAAAAGAAAATTTTCACTGACTTTTCCAGTTTGCTGCTGGCCTAAAC  
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TTCATATATTAAATAGTTGCTCCATAGATTCTTAAAGATGGCAGACACAG  
CTGTTTG

>Sequence 1002

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TAGTTTATTGCAGTGAAAATACAAAATTTAAAAGTTATTGTAGAGAATTA  
TCATACCCCCCAAAAAGTGTCATTGGTCTCCAGGACTCTGTAGTCCCCA  
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AAAATAACACATTTAGCTATACTTTTAGTATTTTTTATTATTGAGATTCA  
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CATAAGTAACTGTGATAAGAACTGTGGATGGATAAGAACACTTTTTTGAT  
GTA

>Sequence 1003

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ATGATAAACTTCATCAAAGCATACTTGGGCAAATTTCAATTATCAAGTA  
AAATTGTAAAGAAAAATTTTTACTAGTTTGGAAATAGATCTACATGTTT  
GATTTTCTTTCTTCTCCCTCCTTTGTTTCTTGCTTTCTCTCCCTTT  
CCTAAAAAGTTAATGGCTATCATTATCTTACCAAATTAGTGTGTGTATA  
CCCATAAAAATGTCAC

>Sequence 1004

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Table 2

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ACAATGGTTTTAAATGACTGGATAGATAGAAATCTCTTTCAACTTAACTG  
CTTAGCACATTGCATTTTCTCTGTTTCAAGTTAGTTTTCCAAAGGATTA  
CTGACTTTTTACCTAATTTGCTAAGGGATGTCAGGCCTTAATGACATATT  
TCTCCTCAAATAAAGATACAACATGCTTTTACTGTGTAGGAG

>Sequence 1005

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AACCTAGACACATTTATATTATTTTCTACAAGTAAACAGAATATCTATTA  
GATATGTTTACAAGGGTTTTATCAATTTTGAAATCCAAGTGGATAATCCC  
CAAATGCTGTAAGGACTTAGATTTTATAGCCAAAACAATTAACACATAAA  
ATGCTATTACATATTTGG

>Sequence 1006

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AGGAAAGGTTGCATTAATATTCTAGTAGTAAATGTGCGATTCTAAATTT  
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>Sequence 1007

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GTGCAAGTTGTTACACTTACATATGATAGTTGAATGGCAAACGTGACCAA  
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TCCACCAACAATTAACCTGGGCGGTGCTTTTTTTGCTTTATGCCTTTTTGG  
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>Sequence 1008

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CGAATTCCTGCTCTTATAGCTGATTTTAGCTATTAGGAAAACATCCCAAG  
TTGAGCTTTTCTATTCTAGAAATTCAGATTTCTTTCTTTTTTAAAAAT  
TTATCTCCTTTTATAGTAGTAAAAATATTTTCTTTTTTTTTTGAATGGA  
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>Sequence 1009

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ACCAGACCTTCACTCTATTGCAGTCATTTTCTCCCACTCTCCCCCTCTC  
TCCCACTTCTCTGAGGATTACCTTCCCTCTCTCAGCATTCCTCTGTCA  
GTGGCTTTTTTTTTCTTTGGCATGCAAAACATGCTCAAGTCTGTCTTATA  
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>Sequence 1010

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TCTCTGTTGTGCCAAACCTGTCATTTTATTTGGTGTGGCTTCTTGGGA  
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TGCAACAGAGGTGGCATCAGGAACAAATGGGTCTATAAGAACTTACCTTGG  
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Table 2

TCACAGAAATGAATTAATGGGAGACACAAGGGTACCACTTAATATTCCTG  
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C

>Sequence 1011

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CTCCCAATTCGTAATGTCTTAAAAACAAAAACAAGTTTATTTCCCATTTA  
TGCCATGTTTCCAGCACAGTTTCTCAGAGGGCTGTGCTCCATGCATTTAC  
TCAAGGTCTGGGAATGATCATGGCTACACTATCTTGCAGCCACCATAATT  
GGAACCTGTTGCCACTCTGATGGCAGCAGAAAAACAAAAGAAACCCAAAGA  
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>Sequence 1012

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CACCTGCCTTGTACCACTCTAACAGGCCCGTGTGAGCAGCTCCGCTTCC  
TCCTGACAAGCTGCGAGCACAGGGGACAGCACAATCTGAAACTCTTACAG  
ATACCAACAGCAACAAAAATGAAAGCAGTTATGGTGGGCAAGCATTAATC  
TAAATTTTTTTTAAAGGA

>Sequence 1013

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CAAGTGATCCTCCCCCGTCAGCCTCCCCAAAGTGCCAGGATTATAAGCAG  
GAGCCACCGCGCCAGCCTATTTTGTCTTAAATTTTTTGTCTTTCAG  
TCACCACAATTTACCATGCATAAATCACAACGGTTAACAATTTAGCATC  
TTTGCCCTTCTTTTCCGTGCACTTACGTTTTATGTAGCCAAGATCACAC  
GTTGCATTTTGTGCTTTCCTTAACAGCGTCTAAGTCATCAGCACTCTAT  
TGTGATGATTATCTTAAAAATATTCCAAGCGATCATTTTTAGTAACTGT  
GTAATATTATATCATAAAGTTAAACATAATTTGTCAATTCAATTGTTGAA  
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AAAAGTTATATACAGTTTATTATAAATCTTTGTGCATACTTTTACTGTT  
TCCTTAGCATAGAGACTGTGGAATAGGATTTCTTGAAAAAAGGTAAAGT  
GTGAGTATGCATATATACTGGTACATATATGTTATTATTATAAAGGTAAT  
AATCTTTTTTTTTGGAGATAGAATCTAACTGCACCTCAACCTGTGTAAA  
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>Sequence 1014

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TCCAGATGTTTTGTTTATTTGTTTCTCGATTACATGTATGAGATTTCAGA  
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>Sequence 1015

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CAGGATGGTCTCGAACTCCTGAGCTCAAGCAATTTGCCGGAGCTCAAGTC  
TCAGCCTCCCAAAGTGCTGGGATTACATGAGCCATCGCACTCTGCTGTTT  
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Table 2

AAAGAAAATCAGTATCAAAAATTTGGAGTTTGAGGCCAGGCACGGTGGCT  
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>Sequence 1016

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CGTTCAAAATATAATGCTGTGGTTTCAACTCCTGCTAAATGTTGCTGTGA  
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TAAGTCAGACATCAATAATTCATTTTATTGGAAATAGGAGTAGTAGTAG  
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CTAGAACAATGCAGTCAGCTTTATTTGGCAAGCTAATATGAATGGAGGCA  
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TTTAGCATCAGTTATTTAAGTCTGACTTACCCACCTTTTGGGACCTTGGC  
AAAGTGACGAGAAAAGGATTTTATAACTTTGTACCTGCCCCGGCGGGCG  
GTCGAAAGT

>Sequence 1017

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AAAAAATTTAAATTAAGGCTAGCAGGATTCAGTTTTCAAAGTGGCCAGCT  
GTGGACTAAATCCAGCCTACAGATACATCTTGTGTGACCAGCAGAGAGGC  
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>Sequence 1018

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CAG

>Sequence 1019

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>Sequence 1020

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Table 2

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>Sequence 1021

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>Sequence 1022

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Table 2

## &gt;Sequence 1025

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GTGGGCGGATCACTTGAGGTCAGGAGTTCAAGACAAGCCTGGCCAACATG  
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## &gt;Sequence 1026

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## &gt;Sequence 1027

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## &gt;Sequence 1028

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## &gt;Sequence 1029

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ACGAGGCCGAGTCTGATATTAGATAGTCTTTGAATGCAACATAAACAGAC  
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Table 2

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Table 2

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C

>Sequence 1037

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>Sequence 1039

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Table 2

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Table 2

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TATGAAATTTCAAAATGCCAAAGAATAGGCAAAATATTCAGAAAAAGAAGA

Table 2

AAGATTGAGGATTTGCAATAACTGACTTCAAACTCACTAGAAGAACGAG  
GCCAGACTGCCAGGGT

>Sequence 1055

GGTACCCACCACGTTTCATGTCTCCTCTAGCCAACTATAAAAGTTATTAACA  
CAAGAACCCTGTCTTATTCATCACAGTATCACCCACAGGGGCTGAGACAG  
TGCTTACACAGAAATGGCCCTTGATAAAATATGGGCTGAATGAATGAACA  
TATGAATTTGACACTTTGAGAACTAAATTAAGTTATTTCTACTAGCAT  
TTTTAACACAAGAACTATTGAGATTACTTATATATTAGTAGTAAATGTT  
TGCTTATTCAATTTGATTGGCAAACCTATAATGAACTCAGTGAAACTGT  
CCACCTTTTCTACATGTN

>Sequence 1056

ACATTAECTACTGACTTACTCTGGGTTGCTATTGTATTAATAATTCTGTA  
TAGACATTACGTAGCCTCAGAGTTGAATTTGGACTGCCCTTAAAAATAAAA  
AATTCTTAAATCTTTAGTGTGGTGTCTATTAATTTTTATGATGATTTACA  
AGTTGGAAATGATTACTTTGCAAGTCATAGTTTACTTTGAAGTTAATAAG  
AGTGATTACAGTAAAGGAAAAATGCCATATATGGCATTGTTCTTAACAGC  
TTATGAAATTTGGAAAAACGATATTTTAGAAAGCTTTCTCTGTTGGCTGG  
AATGAAGTGGAGACCCCTGCTG

>Sequence 1057

ACAGCTTGTTCAAGGATATTTCTTCTATTTTCTTTGAGTTCTTGTTTCAT  
ATTCTAGTTAATTTCTAGTAGTTCTTAATGTATTTAACCAATAGACTTT  
TGTCTTCTTCTGCTTATGTATTCCTCGTAAATGCTTTTGTGACTTGTG  
TAAGTATAAACAACTTTACTATTAGCTGTAAAATTTTCATTTTATGATG  
TCATCAATCTTTTTTGTGTTTATGATGATTAAATGTTTTTCACTTGGAA  
AGATATGAATAGTCTACTTCAATTGATTTTTTTTAAAGTCATTTCTTTT  
TATTTTGTAGCTACAAAATCATAAACN

>Sequence 1058

ACTATACCAGAGTTAAATTCGCTGTGTTCTTTTCTGCCATTAACTGGCTT  
TGGGTTGGGAAATTCAGATAATCCACTTTTCCAACTTTAAAAATGAGATCT  
CATTCAAAACAAAATGGCCACAACCATTTGGAATATGTGTTTAAATTAG  
ACAGTAATGCTTTGGAAAGTGGAAATTAACATTTTCAAGATAATAGCTGTT  
AGGCCGGGCTCAATGGCTCACGCCCTGTAGGGAGGCTGAGGCAGGTGGATC  
ACCTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGTTAAAAACCTA  
TCTCTATTAAAAATACAAAAAATGAGGCATGTTGGCAGGTGCCCCGTGTC  
CCAGCTACTTAGGAGGCTGAGGCAGGAGAATTGCTTGAACCAAGGAGGTG  
GAGGTTGCAGTAAGCTGAGATTGCGCCAGTGCCTCTAACTTGGGCAACA  
AGAGTGAGATTCTGTCTCAAAAAATAATAAATTAATAAATAATAGTTG  
TTAGATTGAACATAGAAAACACGTTTTTGTAGATAAAAAATTTGCCAAGTG  
TCAGCCAACTTTGACAATTTTTAAATCACCAACTTGTGCCATTTACCTCA  
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GAAGAAAAACCCAGTGTTGCTGGACCGGATGCCACCTATTAGTACGGCC  
CGAGAGAATT

>Sequence 1059

CCCTTAGCGTGGTCGCGGGCCGAGGTACTTTAACAAATTAATAAATAAAT  
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GCTGCTTTTAAAGAACTTTAAATCCTCACGTAAACACCACCACCTGCAAAG  
TATTAATATCAACTTTTTCAACAAAATGCCTGCTATGTATAAGCTACTGA  
AAGAAGACAAAAATTAATAAAATGTGTCCCTCCTCTTAGATATCTATAAT  
CTAGGAAAATGAACACATTCTTTTCAGACACTAACTCCATAAGAACAGG  
CATCAGATCTATCTTATTTACCACCACATCCTGAGAATGGAGCACAGTGC  
CTGACACATAATAGATGCTCATAATAGATGCTCAGGGTTATAGTCAGTG  
AATAAGTAAAGAAATGAGTGAGCAAATATCTCTTAAAAAGAACAGACTTT  
TAAAGTTAAACAAGCAGTGATGTGTTATTCAGTAGCAAATAAGATTGTTTC  
CTAATGTCATAATTCAATTNTCCCTGCTTCTACTATGACTAGATGTTGG  
TTGGTGATAGTTTATATGATTACAGTTATTTGGTTGGTTGATTTAAACAG  
TGAAATAATCTACAAAACCTGCAGTTGTNCTGCTATTCTCTAGATGGAAA

Table 2

AGGCTTATAAATTTGGTCAAAAAAGGTGGGGGGGGATATAGGGCCCCCTTAC  
CATTATATATGTGATTTTTAAAATTGGCAATCATGTTTT

>Sequence 1060

ACAGTTACCAAAACCCATCCAATAAAAAATTTAAGCTTTTTGCATTTTAG  
TGGATGCAAATTTGTGTCTTAGTAAGAAGAACATACAAAACTAAGAAAGA  
TAATGTTGAAGAAAAATAACAAAGCTTAAGGACTTAACTATTACCATCAA  
GACATGTATAACTACAGTAATTTTAAAAACTGTTTTCTTGTCATAAGTATA  
GAGAAATGTACC

>Sequence 1061

GGTACTTACGCTTTATGATCTTGAATATTTTCAGTGTTTAAGGAATCTCT  
TCCTTCTTTGATCTCCACTGCATGNAAGAACTCTGTTGCAGGTGTTAACA  
AGGAAGTTTGAAATAGAAAGCCAGAACCTGCCCCCAAAGATCTGACAGT  
AGTAGAAGGAGATCCATTATTAAGAAGGTATAATGGCAACANAAGAATAA  
TCACAAATTAATCTGTGTGTGTAATATGTGTTGTGTGGTGTGGGTCAAGGA  
GATGAGGAAAGTGGTTAGGGAAGACTTTATGGAGGAAGTGGGCTGTCAAC  
AGGGATTGAATGTGACAAGAAAAGTTGGGGGAATTCATGGTAATGACTG  
ACTTAGGCATTTTTAAAAACAAGGTATGCTTGTGAAAGGCAAACCCCATGG  
TTGCAACAACAGAAGCTAATTGCTTCCTTTCCTGGAGTTTACTGGGGGC  
CTTTTTAGTTTTGGTTCCTTCTGGTCTTCGGTCCAAAACACAGGAAGG  
GTGGAGGAGGGAAGGAAACCCCTGGAAACCCCTTTATAGGGTCTAACTAT  
GCTTGGAAAAACAGGGGTACTTGTGCCCCCATTTATTTGGCAATGGAAAT  
AACTGGCCCACTGGATTTCCTTAAAGGGGGCTCCTTTTTTGGAAAAAAT  
TGTGCAAAACGGCCGGGTGAAACAGGGGGATTTTTAAACAGGGGGTTTA  
TTTCTTCCCCT

>Sequence 1062

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TTTACTTAATACATTTATTTAATGAAGGGCTGCTTTTAAGAAAACTTAA  
ATCCTCACGTANACCACCACCACCTGCAAAGTATTAATATTCAACTTTTT  
CAACAAAATGCCTGCTATGTATAAGCTACTGAAAGAAGACAAAAATTAAT  
AAAATGTGTCCCTCCTCTTAGATATCTATAATCTAGGAAAATGAACACAT  
TCTTTTCAGACACTAACTCCATAAGAACAGGCATCAGATCTATCTTATT  
TACCACCACATCCTGAGAATGGAGCACAGTGCTTGACACATAATAGATGC  
TCATAATAGATGCTCAGGGTTTATAGTCAGTGAATAAGTAAAGAAATGAG  
TGAGCAAATTTCTCTTAAAGAACAGACTTTTAAAGTAACAAGCAGTGA  
TTGGGTTATCAATAGCAAATTAAGATTGTTTTCTAATGGCATAATTCAAT  
TTCCCCGGCTTCTACTATGACTAGATGTTGGGTGGTGAATGGTTTATAT  
GATTCAATTATTTGGTTGGGTGATTAAACCGGGAAATTTCTACCAAAC  
CTGCAGTTGGGCCCTGCTTTCCTTTAAAGGGAGAGGCCTTTTTAATTTGGG  
GCAAAAGGGTGGGGGTTTTTAGGCCCTTCCCATTTTTATATTGGGATT  
TAAAAATGGCATTCCGTGTTTTTTTCCAACG

>Sequence 1063

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TTTTATGAACCAGATCACAGTTTCTGACATCGCCTAACCATGTAAAACGG  
GTGAAGCCTTCAGTCTTGGTCTGTTATCTCTCCCATTACAACCTGGTTTC  
AGTAAACAATTGCAGGGCGGCAGGATAACCTCATATTGGAATTGTTAGAA  
AACACGCAGTGTTTTACAGATGCCCTACATTAACCACTTCATAGAGA  
CGTGGTCTCTTCAATTATGTATGGTTATGGTATGATCGTTAAACCATCAAT  
ATATACTGGTTAACAATTTTTAGTAGGTAGTTATTCCTTTCGCTTTTGTA  
ATAATATCCCAGTTTTGGTCGTAACCGGTAATTACCTTTTTTCGTAATTC  
GATTTTTAGGTAAAAATGGTTACCCCATTAATTTAAGAGATAAAAAATAAAG  
TCTCTACTTTTGGAGTCTTTTAAGGTTGTCTATATTGGCCACTTTTGTG  
CCAACTGGAACCAGAAAGGTGCTAAAACCATAAATCGTTGGGAATTAAC  
CCGGACTTTTTAAGGGAATGGAGAGATTCTTTCGACCAACCCAGTTTTATT  
AAAAAGACCCTAATAAGGATCCCCGATTTACATGGGGGGTGGGTGTGTAC  
CAGGAGGATTATTCAAACCTTATAGAGAGGGTTTTCTCTTATTCTGGCG  
CTTTATAAAATATATTGGATATTTTGGCACATATAGGGCTCAGGAACAA

Table 2

CCCTAGAGGTTTGTGGTAAAATACAAAAAATTGGCGCTTTGGAGGGCGA  
TCTTCATAAACCCCTGGGGCCCTCCAAAAGAGAAAAATAAATAAAAAAT  
>Sequence 1064  
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TGTTTGTTCCTCAATCGCAGAAGAGGCCATGAGCACCATATGTGTGTCAGG  
CTTATCATCTGAACCAAGAAAGGCCAATCCTTCACCTTTCTTATGACTC  
TTATAGGCTGCAATATTTCACTTGGCCATAAACAACTTAATATCTCACAC  
CTAGTAGTATTCAGTGACACAGAAAGGGAAAGAGAAAGGATGAAGAACAG  
AGGAAAGAGAAATAATTTCCCAAGATACAAATTTAATATTCTTTCCAAAG  
CATAAGAGCAATTAAAAAATATTTCTCTGTGTAGTTGTAGGATGGATTT  
TTCTACATTATTGNTCAGACATCCTGGANATAATATCAAACTTTGTAAAG  
AACACAAAATATTTTTATTTTTAATTAAAAAACAATCCTTCTAAAGGGG  
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CCTTAAGGGCGAATTCACGACA  
>Sequence 1065  
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GTAAAAGTGTGTGTTGGNGAATAATAGGGGAATGTNGGATTGGTAGCTGT  
TTAATANAAGATTAGGATACATTATAAAATTGCTTAAGGGCCAGGCGCT  
GTGGCTTTACGCTATAATCCCAAGCACTTTGGGAAGGCTGAGGTGCGGT  
GGATCANCCTGAGATCAGGAGTTCGAAGACCACCTGTTCACATGGTGA  
AACCCCATCTGTACCTGCCCGGCGGCGCTCGAAAGGG  
>Sequence 1066  
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GCCCTGTATAAACAAAGAACCAACATAAAGCAGTGACTACAGGCACC  
ATGACAACAAAAGGAGTTTTAAAGTGCATCTTCAAATAGCACACAATTTT  
CCAATTTAAATAGTTTGAATGAATCAAAGGGAAAAAGCATTAATTAGA  
TACAACTGAATTTCTCAAAAGTATATTAACACAGCCTACAAATAAATCCT  
CAAATGTACCTGCCCGGTGCGTCTCGAAAGGG  
>Sequence 1067  
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TTTGTATTTCTCCCATTAAGTAGTGTGTTGGAGGCTTATTAGAATAAGCT  
GAGAAGGGTAATAACATAAACACATACCGTAGGCAGCCCTGACATTAAAC  
ACATNAGGTAGGAGCCTGCCATAAAGCACCGTATGTAAAGAACTAAAAAG  
GGTGTGTTTCCATTTTCATGTGTCCAAGCCTTCTTCCATACTCTCGAG  
ATGACAAGAACACAAAGTTTGCTGAGCTTCACACCAACTAATTGACTAAA  
TCCAGAAAGTTTGGAAATGCGGAGAACATNTTTCTTTTGTACAAGGG  
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TGTGAAGTTTCTGATTTAAACAGAATCATGGTGAAAAAGGGACCTTATTT  
TCAAGAAAAATCTTGCAATTATAAAACCCTAAAAGTTACCTTCGGGCGGGCG  
CACCACCNCCTTAAAGGGCAGAATATTTCCAAAACCACTTGGGCGGGGACC  
GTTAACTAATTGGAATTTCCCAAACCTGTTGGGTACCCCAAGCGCTTTGGCG  
GTGAATCAATGAGGCATTAAGGCCGGTTTCCCTTGTGTTGAAAAATGGG  
TATTCGCGCTCCCCAAATTTTCCCAATAACATTTCTGAAGCCCGGT  
AAAGCCTTTAAAGAGTGTAAAAAGCCCTGGGGTGTCCCTATTTGGGGTGG  
ACCTTAACTTTCCACTTATGGCGGGTGTGGGCTCCTTGTACGGGTTTA  
ATATTAGAAAAAATTTGGGGGCCGTAATCTAGGGGATCCCT  
>Sequence 1068  
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TAAATGATTTTACCTTATCAATCCCCTGTGAAAAATATCTCTAAAGAG  
GTTTTCTGCTGGAATAATTTGTTGCTGTCACATTGATATGCCAACAAAAG  
CTAAGCAGGGAAGTCAGGCCAAGAAATATCTCCCTGCAAGAGAAGGCATC  
GCACATGTATCTCTCCATGCTATTTAAATTTGCATTCTGCAACATAGAAA  
GGATAGGCCATGCTGCAGAAGCCAGGTCCAGGAAACTGCTTTCTTTGGC  
CTTTACACANTCCTTTTGGAGAGATGCTGGTGAAAGCAGCAACTACCATC  
TGCCTTCTGTTGACTTATTGTCANCAGGTGGAGGGAGGAAGGAGGGCATC

Table 2

GCAGACATCATTCTATTATCTCAACCTTGCTTTCTCGGATCCAAAGCCAA  
GAAGTTGCTGTTCCATGCCCTTAGAGCTCTAATTTGGCACCTTTTCCTGA  
AATGAAAGCTTGAAAGGGCTTTTTGCTTTGGTGAAACCGGTTCTGGCCCC  
GGGCAAATTCTGGTGGTTTCGCGTCTGTCAAGTGGGTCCTAATAACTGTTA  
TAAGTGTGGTTCTTGGGAACATTTGTAAAATATTTTCTATTGGTCACACA  
CCTTTTCTGTTTAGACATTTATTTTAAACACAGACAAATGCTTAAGTGT  
CCCGCCCCAGGGTTCTTAACCT

>Sequence 1069

GGTACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAGAGAAGGTAAAGG  
CAAGGGCTCACTGGATATTTTAAATTGTAGGGATGTCTTTGCTCTGGG  
TCAATTTTAGGATCAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTA  
ACATAAAACTTCTGAGATACCAGAAATTTTCCAAAACATGGTATAAACAG  
TATGAAACACTGGGTAGATAAAAAGCTTTCTCTAAATCTTAAAGTGCTCAA  
ATATCATGACCTGATTTTTTAGTTTTAGAAATCAGATATTTTCTATTCC  
ATATCTTAAACTTTTATGTTAAATCTAGTTCTGACAATGTAGGGTTCTA  
TTTTTTTCAGGTGATTGTTGGGAGCGTATAGAAGCATATATAAATATGGA  
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ATAGATTGATGCTTCAGAAACTTAACAGAATATTATCTGCAATTTGGCAT  
AAATGCAINTTTCTTGGGGAAGTTTCCATGGTCAAAATTATTAGTCATTG  
CAAAACAGAAAAGTTTGACAACCTGGAATGCAGACNCTTTGCTTGATTN  
TGTAAGACAGGA

>Sequence 1070

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AGTCCTTGCAAACCTGTGCTATTGATTTTCATTAGTGTAAGTAACTAAAGAG  
AGAAACTTCACACTGACATTTATAATTGTAAGAACTAAGAACCAACCATC  
AGCTTTTCTATGCCAATCCATGCCCTTCAGGAAGTTCTTGAGGCCTTGAG  
GTTGCTAGTTTAGTAAATTGCTTACTGGGACATTAAAGCAGCTACATTTT  
GGAAAGAGGGGAGAATTAAGTTTTTTGTTGTTGAATTTATTATCACTAAGT  
AGTTTAAAGCTCTCTTAGATCCCAAAGAGGAAAAATTCAGGTCCATTA  
ATCAAAAGGCTGAAACTTAACTTTAGNTAAAGTTATTTTGATTAAATAA  
CAAACCTCCGGTTTCTTCCACAGCCGTTTATCCGAAACTATC

>Sequence 1071

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CCATGGTGCTCAGAGGTGTAAACAGTCCATGTAAGTTGAAGAAAAAGAGT  
TATCAATCAATACGTGACTATCAATCATTATTTAATCATTATTTAGTTT  
TCACATATCTATGAATTCAGTAGAAGAACCAGCACTCATAAAGGTGGCCA  
TTCCTATACCTGCCATCGATTACATTATTTTACTTAAATAAAGCTTATAT  
TACATCTGACAACATTCCCTTGTTAAAAAATAAATTCCTAAACAGGGCAAT  
ATTCCCATCTTTTAGAAATATGCCAAAAAATAATTTTAACTCATT  
GGAAACATTCCAGGAACATTCCAGAATCTATTTATTTTGAAAAACAA  
ATTTGTTCAAAATAATCCTTTGGCTTGGTTGGAATAAAAAATTAATTCAA  
ATTTTCAAACCAGACTGGTTAATTAATAAATAAGGCCCAAAACCCCTA  
ATTTATTTACAGGGGGCGGTAAGCCAATT

>Sequence 1072

GGTACTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTTTCACTCTTGTGTC  
CCAGGCTGGAGTGCAATGGCGCAATCTCAGCTCACCACAACCTCTGCCTC  
CCGGGTTCAAGAGATTCTCCCGCTCAGCCTCTTGAGTAGCTGGGATTAC  
AGGCATGTGCCACCATGCCTGGTTAATTTGTATTTTAGTAGAGACAGG  
GTTTCTCCATGTTGGTCCGGCTGGTCTCGAACTCCCGACTTCAGGTGATC  
CTCCTGCCTTGCCCTCCAAAAGTGTCAAGGATTACAGGCGTGAGCCACCAC  
GCCCTGCTTAAGTTTAAATAAGATCTCTTGGCAACTTTTACGACTGGCA  
ACTTAGGTCTCACAAACACAGAAAAGCTTGTCTTTAAGTATATTGTCTTT  
GAAAAGTTAATACACTCTCTAAATGCTCCATTTAAATGATTACTTTAT  
AAATGCATGCACTGAGAGAAAAGATATTTGAATGATATACANCCACATGT  
TAAATTAAGTGTGATTGTTTCTAAGTATTGGCACTATGGTCAATTTTCTT

Table 2

TTTCTTGTTTATGCTTTTCTGAAGTTTCAACCCCCATAATAAAGATGTA  
TCTCTTCT

>Sequence 1073

GGTACCTATTGTATCAGAAAAATGCTAATTAATTTTTTGCACATAAAGGG  
CATTTTAAACTTGGTTTTATCTTTGTGATAAATATGGATGATGAATGGT  
AATGTTAAACAGAATTCAAAAAGTTATCAGTTTGGCTAGCCAGACACAGTA  
GTATATGCCTATAGTCCTAGCTACCCAGGAGGCTGAGGCCAGAGGAGCCC  
GGAAGTTCACGTTTAGCCTGGGCAGCATAGTGAGACACTGTCTTTTATAA  
AAACAACAGCAAAAATGATCAGTTTGGGATAGTAAGACAAATGGCTTTCT  
TTTGTTAGGAATTTCTCTATTTAAAGGACTTTTAGGCCTAGAGTGGTGGC  
TTACGCTTGTAATCCCAGCACTTTGGGAGGCCAATTGCAGGAGAATCACT  
TGAGGCCAGGAGTTGGGGACCAACCTGGGCAAAGTAGGGAGACCCTGTCT  
CTTCAAAAAAATACAAAAATTAGCCCAAGTGAGGTGGTGTCTGCTGGGGT  
CCTAGCCACTGGGAAGCTGGGGTGGGAGAAATACTTGGGCCCAGGAATTT  
GAGGTTGTAGTGAGCTATGATCCCGGTACAGATTATAGACCCTGTCTCTA  
AAAAATTAAAAATAAACCTTTTTTAAAGGACTTTAAAGTTGGATTTTTTT  
CTTGTTAAGTTATTATCATTTCTTATGTCTGCTTTGACCTGCCCGGCCGG  
CGTTAAG

>Sequence 1074

GGTACTGGGTCACTCTGCCCCAGCTCTCCAAAGGCATCAAGATCCGACTG  
CTAGGAGCCCCGGCTTCTTCCCTGACCTGCCCGTCTCCTACACCCTCTGG  
TCCTGTCTCCACACTGGTCTAATAACTGGTGTTCACATTCTCTAACGTG  
CACAACACAGTCCTGCCCCGTGCTTTTCACTCTGTCCATTCTCTTA  
TAACGCTCTTCCCCAAATCGCTTGCCCATGGCTTGTGTGCTCATCTCAAG  
GTAGAAACAACTGTCTGCTCAATCAGCTAGAGCCCTCCCACTATGCTCCC  
GCGTACCTGCCCGGGCGCGCGGTCAAAGGG

>Sequence 1075

ACTCTTCAAAGAGGATAAACTTAAAGAAAAATGACTAGATACACATCAAAT  
TAAGTGTCTGAAAACCAAAACAAAGAAAAAATTTTGAAAGCAGCTAGA  
AAAAAATTACACACCACACAGAGGGGAATAAGGTTTACATTACAAAGATT  
TTTACCAGAAATCAGAGAAGTGAAAAGACAGCTAAATGGCATCATTGAG  
GTGCTCAAGGAAGCAAGCATCTACTCGGAATTATATATCCACCTAAAATA  
TCCTTTAGGAATGAAAGTAAAATAAATACATTCTCAAAGAAAAACAAAGA  
GAATGTATCCCCAGCAGACTGATCTGCTAGAAAAGCTAAGGTCAACATTA  
GGCTGAAAGGAAATGCTGCATCTTCAGGAATGAAGAAAGAGCAATAGAAA  
CAATAAATATATAGGAAAACACAAAATACTAGATTTTTCTCTAAGTTCT  
ATAAAGTACC

>Sequence 1076

ACTTCACTGATTTATGGCAAGTCAGCCAATCCATCAGTGCTCAAAGCTCC  
TTGTATTGTCAGGAATGTCTAACATTATTTGTCCTCATTGAGAATTAAA  
CTGCCAACTAGTAGCATTGTTTTGTGTCTGATAGATTCTTCATGCAGAA  
AGAATAAGTAAATGAGATGGGACACAAATCTGAGTATAGCATTGTCATT  
ACTTTTTGCTGCACAGATTACTTGCAAGAAATATTCTAGTCTGGGGCATA  
ACAGAATCCACAAATCCAGATTTAAGAAATAGGTCTATATAAAGCTTAT  
TTAATATTTGGTATATTTTTTAGTTACTCATTGCGTGTCTTTATAATGC  
AAAAGCATTTTTTGCGAATCTTGTTTTCTACTTAAAAATGAAGAAAAATCT  
TAACATACAGTGGTGAATAGGAACACCACACAACCCCTATATTGATTAA  
AGTAGTTTATTAGGTAAGCTTACAGTNGAAGTAGCTTCCGAAAAAAAAT  
ATTAAGAAAAACCATTAGAGAAAGGGTATTTACTATTCTTAAGGGGGAAA  
AGGTCCTATTATGAATCATAGGTGTTCTATTTATAAAGGTATGTCCTTC  
AGAACCTGGAGAAGGGCTTTACAAAATACCTTGAAATTAATCCAGGGGA  
ACAAATTGACTCAAAAAACAAGAGCTGGGTAAACCCCTGGAAGAAAGGCC  
TTATAGCCAAAT

>Sequence 1077

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GTGTATATGTGTGCATGCATGNATAAGTGTGTGCATTTGCACACATAAG

Table 2

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TATTGCTGGACTCTTAAGATTGTCTTGTAATTGTCTTTTGTGTGTGTG  
AAAATTAAGGGTGTATATTAAGGTTAGTTTTTACCCAGATCTTATATGTG  
TGATAGCTCACGTCTGTAATCAGAAACCTACTGTTTAATGGCCACCCAAT  
TGCCATTAGCTTCCTAGAGGGTGATTTAATAAACTATCTTCTTTAAAACT  
CATTTAAAAATTAGAGACATGTTTGCATACAATGGATTAATGACGTTTTCA  
CACTAACCCACAAAAAGTCTGCTGCACTTTCTTTGTAGGCCTAACATTCA  
TTTCATATGCATTGAATATTATTGGTGAACCTGCATTAATTACATCGTGC  
ATATATGGACATACAATGTCATCTGCAGAATTAAGATTTTTTATTGTTA  
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ATAATAATATTTCTAGTGGTTTCAATTAACCCCTAAAAATGTGATTAGATCAG  
GATTAATTTGGGAAGAAAAATTTTCTAAAAATGGGCCTGGCCCGGCGGGC  
GTTTCAAGGGCAAA

>Sequence 159

TGGCTATTGAGACCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACACAGG  
ACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAGCGCAAAA  
GGCTCCAGACTTTGATGTCAAGTGGATGATTCTGTGGAGAGGCTGTATAAC  
ATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTTACACCGC  
CGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAAATCCA  
TGCCATATGACTTTGATATTCGTGTGCCTTTTTTTATTCGTGGTCCAAGT  
GTAGAACCAGGATCAATAGTCCACAGATCGTTCTCAACATTGACTTGGC  
CCCCACGATCCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACG  
GCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAACAGGTTT  
CGAACAAACAAGAAGGCCAAAATTTGGCGTGATACATTCCTAGTGGGAAG  
AGGCNANATTCTACGTAAGAAGGAAGGATCCAGCAAGAATATCCAACAGT  
CAAACTACTTTGCCCAATATGAACGGGGTCAAGAACTATGCCAGCAGGCC  
AGGTACCCCTGGCCGTCTAGACTGGTGGATTCCCCGGCTTGAAGAATTCC  
ATTTTAAGCTATTATTACGTCAACTGAAGGGG

>Sequence 160

TGGATGATGNATTGGTAGGCCTCATCGCGGTGGCGGCCGCCCGGGCAGGT  
ACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAG  
CGCAAAAGGCTCCAGACTTTGATGTCAAGTGGATGATTCTGTGGAGAGGCT  
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTT  
ACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGG  
AAATCCATGCCATATGACTTTGATATTCGTGTGCCTTTTTTTATTCGTGG  
TCCAAGTGTAGAACCAGGATCAATAGTCCACAGATCGTTCTCAACATTG  
ACTTGGCCCCCAGCATCTCGGATATTGCTGGGCTCGACACACCTCCTGAT  
GTGGACGGCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAA  
CAGGTTTGAACAAACAAGAAGGCCAAAATTTGGCGTGATACATTCCTAG  
TGAAAAGAGGCAAAATTTCTACGTAAGAAGGAAGAATCCAGGCAGAAATC  
CAACAAGTCAATCACTTGCCCAAATTAACGGGTCAAGAACTATGCCAGC  
AGCCAGGGTCTCGGCCGCTAGAACTAGTGA

>Sequence 161

GATAACGTTGAACCTCATCCGAGGCCGGCCGAGGTACCATCCTATTAATA  
CTAACTTCTGCTTCTACATACTGTAGACCTTTCTGGATGATAGAAATCAA  
TGCAGCGGGTGGGACGAGGGCACCATTATATTGGACTGACTGATATGGC  
TTTCTATACCAAAGGTAAATGCTGAATGAGAAAATCCTGACTCTTGCAAG  
TATCTATATACCAAGAAGTGTGACCTCATCACTGCTTATACTCATCTTTAT  
TCCCACTTAAACCATGAGGTCACACCACAGGATATAACCCATTGGCAGTG  
CATTGATGTGGGGATGTGCAACTGAATATCCGGGCACCGCCAATCACAAG  
TTGCTGTTGTTGATGCTGGAAACGGTGGCCCTTCAACGCCGCTTCCCCCT  
CCGGGAATCCCCCGCTCTCCCCCGGGGTNNNTATTTCTCTAACTACTCA  
GTCTATTCTCACTAAAATATTCTTTATAATTTAACTTTATACGAATTTA  
ATAGTTATTCACTATTATTTATTTTATATATTATTACACAATTTCTATT  
TTTTTAAATCAATACTTAACACTTTTCTTTAATTTTATTACAATATA  
CCAATAGATTATAACATTTTACTTATTACATCTTTCTAC

Table 2

## &gt;Sequence 162

GGCGGCCGAGGTACCTGGCCTGCTGGCATAGTTCTTTGACCCGTTTCATAT  
TTGGGCAAGTGATTGACTGTTGGATATTCTTGCTGGATTCTCCTTCTT  
ACGTAGAAATTTGCCTCTTTCCACTAGGAATGTATCACGCCAAATTTTGG  
CCTTCTTGTTTGTTCGAAACCTGTTACCTGGCTTTTCTGGGTCCAGAAGT  
TTGAGGACAGACTTGCCGTCCACATCAGGAGGTGTGTCGAGCCCAGCAAT  
ATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA  
TTGATCCTGGTTCTACACTTGGACCACGAATAAAAAAAGGCACACGAATA  
TCAAAGTCATATGGCATGGATTTCCTTGGACAGTCCAAACTGCCCAAT  
ATGGTAACCATGGTCCGCGGTGTAATGATGTAAGGATTCTNCAGCTTCC  
CCGTCTCCACGAGCCTTGTTTACAGGCTTTCCACAGAATTAT

## &gt;Sequence 163

TTATTATCGATGCGCACCACGCGTCCGGGTGGCTCTATGTAGTTCTAATT  
TGCATTCTCTAATGACTAACGATGTTAAACATATTTTATGTACTTGT  
TCATGTACTTGTGATATGTCTATTCAATTCTTTCACCATTTTTATGGA  
GCTGTTTTTTTATTATTGAGTTGTAGGATTTCTTTATATATGCTGCATAC  
CAGGCCTTTGTTATATACATGCTTTGCAATGTACATTGTCTTAAAAATCTG  
TGGCTTGCCCTGTTCAATTCATTAGTGGTGTGTTTGTAAAGCAGTTTTAAT  
TTTGATGAAGTGTAACCTATTCATTTTTTATTATGGTTATTGCTTTATGT  
TTCAGGTCCCAAAATTTTGCCTTCTCACAATCACAACATTATCCTATGT  
TTTCTTCAAAAATTATATGGTTTTATGTATTTTCAATCTCAAAAATTTC  
TCTAATTTTTTGTGATTATTTACTAAAGAAATTTGAGGGATTGCTA  
TAATGTTAGGGATTTTTCTAGATGCCACT

## &gt;Sequence 164

TCGATGACTACCGCGGTGGCGGCCCGCGGGGAGGTTATTTAATTTCT  
TAGTGTCTCAATTTCTCCTCTATAAAACAGAGATAATAGTATTTAGCCC  
AGAGGGTTGTGGTGAAGTGTGAATCATTTCTCCATGTAAAACACATAGGA  
CAGGCTGGGCATGGTGGTGGGCACCTGTAATCCCAGTTACTTGAGAGGCT  
GAGACAGGAGAATCGCTTGAACCCGGGAGACGGAGGTTGCAGTGAGCCGA  
GATAGTGCCACTGCACTCCAGCCTGAGTGACAAGAGTGAGAGTCCATCTC  
AAAAAAAAAAAAAAAAAAAAAAGTACCT

## &gt;Sequence 1078

CATGCGCTGTATATAAAATCTTCGTCTTGTGTATATATATATTTAAAAA  
TGTCGATGACGTTTAAACAGATAAAATNNNTNANCNCNGNCGTNNTNNNN  
NNAAGTGGNGGNGGATTGTATACGACTATATAGGCGAATGGGCCTCTC  
AAGCATTCTCNANCNGNCGCCANTGTGATAATTCTCTCTATAATCGGCCG  
CCCGGGCAGGTACAGACTTAGTACCTTTGCTTTTATATATTGTGTTTTT  
GCATAGATATGAATAGTTTCACTAATTCATTTCATGGTACTGTAAACATT  
CTTAAACCTTTGTTTTATGGGATTATCAGAGTAACAAAATAATGTAGTCC  
CTTTATGGACTATAAGTAAC

## &gt;Sequence 1079

GGTACAGCTCACATTCATGGGGAGGAAAATCAGGGCCTGTCTTTAGATAG  
GAGATGTATCAAAGAATTTGTGGACATATGTTAAATCACAGCACTACTC  
TTGATGT

## &gt;Sequence 1080

CGATATGGGAGTGCACCCACGCGTCCGCTGCCATCGCCCAATGGGCTCAT  
AAACAAAGTGGCCATGGTGGCAGGGATAGACTTTCTCAGCAACATGGACT  
TTCACCTACCAAGGCAGACCTGGCTACAGCCACTGCTGAGTGCCCCATT  
TCCAGCAGCAGTGGCCCAACACTGAGCCCTTGATATGGATCATTCTTGGG  
TGATCACACAGCTACATGGTGGCAGATTGATTATATTGGACTTCTTCCAT  
CATGGAAGGGCAGAAAGTTTCTCCTCCCTGGAATGGACACTCCAGATATG  
AGTTTGCCTATCCTACACGCAATGCTTCTGCTAAGACTACCATCTGTGGA  
TTCACGGAATGCCTTATCCACCGTCATGGTATCCACACAGCATTGCCTC  
TGACCAAGGCACTCACTTACAGCTAGTGTGACAGTGGGCTCATGCTCTT  
GGAATTCAGTATCCACCATGTTCCCAACCATCCCGAAGCAACTGGATT  
GATAGAATGGTGAATGGCCTTTTGAAGTCAACAATAACAATGCCAACTAA



Table 2

GTGATAATACTCTGCGGGGCTTGGGCAAATTTTTTCAGAAAGCCATTGTT  
GCTCTGAATCAGCATCCAATATATGGCATTGGTATTCCATACCCAGGATT  
ACAAGTCCAGGAAATAATGGGGTGGAAATGGGAATGGATTACTTAACATTA  
CCCCTAATGATCCATAGAAAATTTGGCTACTGTTCCACACATTCATTCT  
GGTGGTCTAAAGGTTAGATCCCAAGGAGAAAAGTTCACAGAA

>Sequence 1081

GGTACACGATGTGGCTGACATTTGGCTGGAGTCTGCTAAGATGTCTTCTT  
ATGCTGGATGGACGCAGACCTGTAACACCTCTGTTTTTCATCTTCTCCAC  
CATATTTTTTCATCAGCCGCTCATTTGTTTTCTTTCTGGATTTTATATG  
GCACGCTGATCTTGCTATGTATCACCTCGAGCCTTTCTTTTCATACATC  
TTCCTCAACCTACAGCTCATGTCTTGCAGGTCTTCACCTGTAAGGGG  
TTATTACATCTTGAAGATGCTCAACAGATGTATATTTCATGAAGAGCATCC  
AGGATGTGAAGAGTGATGACTAGGATTATGATAAAGAAGATGAAAAGGGA  
GATGAAGAGGCTACCCAAGGCAAAGAAATGGATTGTTTAAAGAACGGCCT  
TCGGGCTTGAGAGGCACCTCATTTCCAATGGGCAGCATTGGCCTTAAGTG  
GAAGCCTACAGGAACTCCTTGGCACCAGTTGCTTAAAGTAAGTTCGCCCG  
CCGGCCGATTGAAAAGGGGGA

>Sequence 165

TCTTCCATACTTCGTAACCTCTATACATTTACCATTGTTATCATCTACTAT  
AATTATCCATCTTATACTTCCGAACCTCGTTTAAATAGTATTTATCTAATTA  
TTATATAATTTCTATTTATAAATTACTTTTCTNACTGCNAANAGCCNTTGTG  
TTTTTATCCGCTGACGAACGCGCAGGNACCGGCATCAGCATTAGTAATC  
AACCTGTAAATCCAAGGTCTTTAGAAAACTTGAAATTTCTCTGCAAGC  
CAATTTTGCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGGGTGA  
GAAGAGATGTCTGAATCCAGAATCGAAGGCCGTCAAGAATTTACTGAAAG  
CAGTTAGCAAGGAAAGGTCTAAAAGATCTCCTTAAAACCAGAGGGGAGCA  
AAATCGATGCAAGTGTCTTCCAAGGATGGACCACACAGAGGCTGCCTCTCCC  
ATCACTTCCCTACATGGAGTATATGTCAAGCCATAATTGTTCTTAGTTTG  
CAGTTACCCCTAAAGGTGACCAATGATGGTCACCCAATCAGCTGCTACTA  
CTTCTGTAGAAGGTTAAATGTCATAATTCTTAGCTTTTCAGGAATAACT  
TTACCCTGGCACTATTAATGAAAGCTCTACCGGGTGCCTATGTCTTAAG  
GGTGGTTTGGACCTGCTTCAAATATTTTCTTCACTTTTCCCATCTTCCA  
GGGGTCTTGGGCGGTCTGAACTAGTGGGATCCCCGGCCTGCAGGAATCC  
ATATCAACTTATATGTCCCGCGCCCTCAGGGGGGGCT

>Sequence 166

TTCTATTATTCGTTGATCGACTATTCCTTCTTCGGTNTATTGATTGAACA  
GTATTCACTTCTATTACTTCTTTTTATACATCCATTATCGTCTGTTT  
ACGATGTTTATCTATTATTATGTTCTACATTATGTTTATTACNNNNAAG  
GGTCGTTGCTTTGTAGCGCNCTCTCCNAGTGGCGGCCGNGCGGGCAGGTA  
CTTGCTCAGCCTTGCCAGGCCCTCTGATGAGCTCTAATCAGCAGGAC  
CAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTGGATGGAGAAG  
AAAGGTGGACAGCCTGTTCTCTCATGTACGCTAGGGCTGGGAACAG  
TTTGTGAGGACTTATCTGTTGTACCT

>Sequence 167

CCGCCCCGAAGTACGTINTCCGCTAATATTGATGGCAATTTCTACGTTATT  
CTCAACTCGTTTTTCATGTTACTTATATGACATCTACATCATCAGTTTATA  
GTACATAATATNTNTNNAATGTATGTGCTGGTAGCGGGCTGNCGNCCGG  
GCAGGTACGCGGGATGGCACGTGCAGCGCAAGTAGGTCTACAAGACGCTA  
CTTCCCTATCATAGAAGAGCTTATCACCTTTTCATGATCAGCCCTCGGA  
ATCATTTTCTTATCTGCTTCTAGTCTGTATGOCCTTTTCTTAACACT  
CACAACAAAACCTTACTAATACTAACAATCTCAGACGCTCAGGAAATAGAAA  
COGTTTGAACATCCTGCCCCCATCATCCTAGTCTCTATTGGCCTCCCA  
TCCCTACGCATCCTTTACATAACAGACGAGGTCAACGATCCCTCCCTTAC  
CATCAAATCAATTGGCCACCAATGATACTGAACCTACGAGTACCCT

>Sequence 168

CTTGTCTTTCACTTCACACATTTTCCAACCTCTATCTTAATATCACAT

Table 2

TCTCTATATTTTCTTTTTTAATATAAAATAAATATAGTCTATCATATTGT  
ATTAATNNNNNTGTTAAGTGTGCTGTAGCGGGCCGCGCACGCTGGCAT  
TGCATCTTCAGGAGACGCTCGTAGCCCTCGCGCTTTTCTAGGACAGTTC  
GCGGAAGAAGTGGCTCACGCCTTCCAGAGCCACATCATCGCGGTCGAAAT  
AGAAGCCAGAGAGAGGTAGGTGTAGGAGGCCTGCAGGTACCT

>Sequence 169

CCGTGTGCCCATTTGANANTCTGNCTTACCGNGGNGCCGGCCGCCCCGGGCA  
GGTACTTCCACTATTATTGAATGTATTCTGTATTATAAATTGTATATTGA  
TTGCCATATCTCCCTCAACTGCATTATACATTTTCATGGGTGAGCCAGTG  
TCTTTTCTACTCTATTTTCACTGCCCTGCACATTTTCTGGCACATAGTAAG  
CATNCCCATGAGTNACTGTATGNAATAAATGTANTTTCCCTAAATTCAGG  
TTCAGTATNCCTTAATCTGNAATACTAAATCCGAAATGCTCATAAAA  
TTCAAAGCTTTTTTGAGGACCTGACCTCGTGCCTCAAAGGAAATGCTCAT  
TNGGAGCATTTTGGACCTTCAGAATTTTCAAGATTANNGGATATTCTATA  
CCCCTAAGAAATAAGTGTCTAATATTTCCCAAAATNTNNCAAAAAAGTCT  
TTGAAATCCCCAAAACAACCTTTCTGGTCCCCAAGGTATTTTTTGAAAT  
AAGGGGATTACCTCANACNNCTTGTACCGTNNAAAAATACCCATGCANNNT  
ACTNNTTCGATTAGGCACCCATGTGAAAGGGGTATCTTTCTCTTANNAA  
TTGANACCCTCATTTGGGNNTTTCGTTCTTCAAGCCAAAACCTTGACCCTGG  
GGCCCCACTTTCAACATGNNNGCTTTTAAATCCGTGCCCTNGGATGTAA  
ATGGCCATGGTTCCTCTTTTTTACCACATAAATTTCAATGGCCCCATCA  
AGATTGAATATTCACATTTTCGACCATAACACTGGCCATTCAAGGTCCCTT  
CAACAAGCCCACTCATAANGGTTTTCTCTCTCTCCATCCAATTTTTGG  
TTCTTATGAAAATTTCTACCTTTGGCTTTCCCCCAGGAAACCTTTAAGT  
AGGTTTCTCGGTACAGGTCCCGCAACACCAACCGCAACGCGGGGTCTCCGC  
GTAACCTTCGGCCGGTTCTAGACCTAGTGGGATCCCCCGGGCCTGGAGGA  
AATTCGAATTCAAGGCTTATCGATTCCG

>Sequence 170

TGTGTCGATGCGTCACCGGGTGGCGGCCGAGGTACTTAGCTGTGTTTTTA  
TTCAAAGTCTACATTTTATGTAGTGGTTAATGTTTGCTGTTATTAGGAT  
GGTTTCACAGTTACCATACAAATGTAGAAGCAACAGGTCCAAAAAGTAGG  
GCATGATTTTCTCCATGTAATCCAGGGAGAAAACAAGCCATGACCATTGT  
TGGTTGGGAGACTGAAGGTGATTGAAGGTTACCATCATCCTCACCAACT  
TTTGGGCCATAATTACCCAAACCTTTGGTGGAGCCTGAAAAAATCTGG  
GCAGAATGTAGGACTTCTTTATTTGTTTAAAGGGGTAACACAGAGTGCC  
CTTATGAAGGAGTTGGAGATCCTGCAAGGAAGAGAAGGAGTGAAGGAGAG  
ATCAAGAGAGAGAAAACAATGAGGAACATTTTCAATTTGACCCAACATCCTT  
AGGAGCATAAATGTTGACACTAAGTTATCCCTTTTGTGCTAAAATGGACA  
GTATTGGCAAAATGATACCACAACCTTCTTATTCTCTGGCTCTATATTGCT  
TTGGAACACTTAAACATCANATGGAGTTAAATACATATTTGAAATTTAG  
GTTAGGAAATATTGGTGAGGAGGCCTTA

>Sequence 171

TGTTGTACTTATCGGGGGCGGCCGCCCGGAGCGGCGCGGAGCATGATGGA  
AGTCGTAGTAGGAAATGGCGTCTGTGGCATTGAGGGGCATCCCTCCTAGAA  
CCTCCAGGAAAAGCTCGCGGAAGACGAGGTTCTGCGGAGAGAGAGGCTCC  
AAGCAGTCTGGGAAGTGTAGTCCAGTTGGCTTAGCAGTAGTTTCGTTGGG  
GGGGAGCCGAGGTTCCGGCAAGGGGCTAGGCCGGCTTGAAAAGAGATTAT  
GACTGTACCTCGGCCGTCGAGCGGCCGCCCGGCGGAGGTACAACCTTTATA  
CAACTCAGGAGATTAATAAAAAATCTCCACAAGAAGAAGCAACTCAGCAG  
GCCCTGGCATTAAAAACATTTCCAGAAATAAACAGATATGCATTGCATTAA  
AGGTAATTTTCAAATATTTAAGTTACACCAAGATTTCCCTCCAATATGTG  
CCTTTCTCAAACCAATGCAACTAATTCATTGCTAATACTGGGGCATGAAT  
TTTTGGCAAATGTTTATGGTTTTACTTTCTTCAATTAATCAAAAAATTTT  
TAAAGTGCTACCAAGCAGCAAAACATGTGCGCATCAGTTCTCTGCTCATGG  
CAGAAGTGCCCACTGTGAAATCGCAAAAGGTAT

>Sequence 172

Table 2

GACGATGCATTCACCGGGCGGCGGCCGGGTACAGATTTAAGGTTGATGGA  
CTCAGGGTAAGGATAGCTACAGCTGTGTGGGGCTGAAGGTCTGTGGCACT  
GAGCTACTGGGGAAGGAGGGCTCTGTTTTATTGTGACACACTGAGTTAA  
TAAAGCACTTACTGAGGGAGCCAGAGCCCAAACTCTAAATGTGCTGTAGA  
AAAAGGGCCAAGTCATTGACTGCACCACTCCTTCAGCCAGAGGTAGAAAAG  
GATTTACTCTTCAGCCATCTGGTAGAGCCCCAAGAACAAGTTACATGTGG  
ACAAAGGGAGGGAGAGGTATCATGGTGATTAAATAAATTCAAACAAAGCTG  
AATGATAAGACCCCAGGATGGAATACAGTCTGAGAAAGGCCTGGGCAAAG  
GGAGGCAGAGGGACTGAAGGAAGCAGGTCAAGGAAGATACACCC

>Sequence 173

AGAATGACCCCTTACGCGTGGCGGCCGAGTACGCGGGATAGGTGGAAAAA  
AACACTGCCATTACACAAGTCAAGGAACCCAGGGCCAGCTGGAAGTGTGGA  
GCACACATGCTGTGGAGCACACATGCTGTGGAGATTGCAGTGTGTCTGAG  
GTTTGTGTAGTAGTGGGAAGATTTTAGGTATGTAGAGCAAGTTGAAATGGA  
TTGAGACTGCATGGGGGCATAAATGAGAAATTGCCTGTAGCATCTAGTCT  
ACTTGAAGGAAGTGGAGACATAAGGAGAGACAAAAACAGGTTTGTGCCAT  
AAAGTATTTTTCAAAGACACCAAGATGTGGGTAAATGAAAATTATTAGT  
TCACCTCCCTGCTGGCATGAAACTTTGCCTTAAGAAGGGTGGCTGGAATT  
CCAAGGTTTGGTAAAGGGCAATTTTGGGTAAAGGACTGGCTTTTTTGAA  
TGCCTTATG

>Sequence 174

GTTTGATTGCGGTGGCCGAGCGGCCGCCGGGCGGAGGTACCACTAGGGTGT  
TGTTAAAGGACTTGATAACCAGCTTGAAGAGGTTCCCTACTGACCAGAAAT  
GGAATGAAATTTAAGCATCAATAAGGGTAATAACTGCAAGAGACTGACAT  
CCACTATGGTTTTAAATCCATGAGGTCACAATGATACTTAATTTTTTCATTA  
TTCTGAAAACCAAGTAAATAAAGGCTAAGATTCAACAAGCATTTATCCAGC  
CTTTCCTCAATGAAATATATCTTAAGAGAACCGAATAGTTAACATAGAGA  
CATGGCCGGGCAAGGTGGCTCTCGCCTGTAATCCCAACACTTTGGGAGGC  
CGAGGTGGGAAGATTGCTTGAGCCCAAGAGTTCTAGACCAGCCTGGACAA  
CATGGTGAAACCCCTGTGCCTACAAAAAAAAAAAAAAAAAAGTCC  
CACTTCCCTTTTTACTGTAGGGGGGATAACTTTTAGGAATTAACCTTTT  
GAATATTATTTCTTGAATAAAGCATGTGTTAATGGTTAAAAANACAAAAG  
ATCAAATAATAGAAATAATAAGGTCCCTCGGCCGCTTAAAAATAAGGGGA  
TCCCCGGCTGGAGGAAATTCATTCAAGTTAATGATACCGTTACCTTAGG  
GGGGGGCCGTACCAACTTTTTTCTTTAATGGG

>Sequence 175

AATCAAGCGCATTATTCGTATTACTGTACGTAATACATCGACGTCTGCTA  
CTCANATTTTTACTTTATTATATATGTACACTCACTCTATCTATATATAC  
TATTATTGTATCTATGAGGCTATNTATATATTTANNNNAAGTTTGGTGTG  
CGCGACCGGCCAGGTACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTG  
GAGAGACTCTGTGGACGTAAAGAAGGGAAATGAACACAGAGAACTTTCAG  
CCAGATTCTGTAGTGTACCTGAACAAGAAAAGTCAAACCTGGAGTGAAC  
CATGCAAAATGCAGCGTGTGTGGGAAAGTCTTCTCCGTCATTTCCTG  
GACAGGGACATGAGAGCTCATGCTGGACACAAACGATCTGAGTGTGGTGG  
GGAATGGAGAGAGACGCCCCGGAACAGAAACAACATGGGAAAGCCTTCA  
TTTCCCCCAGTAGTGGTGCACGGCGCACAGTAACACCAACTCGAAAGAGA  
CCTTATGAATGCAAGGGGTGCGGGAAGCCTTTAATTCTCCCAATTTATT  
TCAAATCCATCAAAGAAACTCACACTGGAAGAGGTCCTATAAAAGGAGG  
GAAAAAGGTGAGAGCCTTTACAGTTTTTCAGTTTCTTTTGAAAAACATGGAA  
AAATGCATACTTGGGAAAAAACGCTATGAATGTAAATACTGTGGAAAACC  
TAATCGGTTATTCCAGGTTATTTAAATTCATGTTAGAAATAACACTGGG  
GAAAAACCTACCAAAGGTAACCATGGGGGAAAGGCTTTATTTCCGAGGG  
TACCTTTGGGCACATTGAAATAAACTTAACCGGCTGGT

>Sequence 176

CCGGCCAGGACGCGGGGTGCTGTGAAGAGCTTTGCATTGTGGGAAGTCTT  
TCCTTTCTCGTTCCCGGCCATCTTAGCGGCTGCTGCTGGTTGGGGGCCG

Table 2

TCCCGCTCCTAAGGCAGGAAGATGGCGGCCGCACAGAAGACGAAAAAGTC  
GCTGGAGTCGATCAACTCTAGGCTCCAACTCGTTATGAAAAGTGGGAAGT  
GCCT

>Sequence 177

CCCCCGGTTACCCGACGCCGTCGCGATTGGAACCTCCCGCGGTGGCGGC  
CGAGGTACTTTTTTTTTTTTTTTTATGAATTATTTATTTCTTTCTCA  
GAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTTCTGCA  
TCTCCCCACAGACGGGGTGGTTCTAGA

>Sequence 178

TGGGGCGTTGAGACTTCCTCGCGTGGCGGCCGCCGGGCAGGTACCAAAC  
CATTTTCACTAGTTCAGGATAGGAATATTCATCAGATTGTCTCTGTAAAA  
GTGAATCACAAAAATTCACCTGTGTAGGTGTGGGACTGGACAGCTGAGT  
GACAGGGCCCTGGGAAGAACAGAAACCACTTTTCCTCTTCTCTGAAAT  
ATCAGAAGTTAAAAATCTACTCTGAGTTATATGTGCATCAATTTAGACA  
TATTGCTGATTTTATTATGAAAATGAAGTGCTAAAGACAAAGGATATTTT  
CATTCCTCTGGACAGGCAGCCACAGACCAGCACTGCTTGACCCATGTGTA  
TACACATGTGTGCTTTGTACCT

>Sequence 179

TGGTCGTTGTTGCGGGCTGCCGAGGTACTCACAGTCACGCAAATTCAGT  
TCTGCGTGACGGCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGG  
TCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGATGAGCGATAGATAA  
ACACACCTCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGA  
TCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTT  
CCAAATAAGAACAAGGACACACATTGTGTGTCAGGTACGAAGATCATTGAG  
TTTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCT  
TCTTCAATATAACCCCAA

>Sequence 180

TGANAGATTTGCGNGGGCGGCCGAAAACTGATCAGACTGTCTCAGATCAA  
GGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTG  
GGGTTATATTGAAGAAGGTACGCCACAGAGTGTGAATAGTGGAAAAACC  
TTACGCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTC  
CTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGG  
GGACTGTCTGAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGT  
TCAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTAT  
GGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGATGGAG  
AGCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGAGTACCT

>Sequence 181

TGGATATGTGCATCGGGGGCGGCCGAGGTACTCACAGTCACGCTCCTCTG  
AACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTC  
CCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTTCTCAAATAAGAACAA  
GGACACACATTGTGTCAGGTCACGAAGATCATTGAGTTCCATATGCTGA  
AGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACC  
CCAAATGTACCCCAATCTATTTCTTCCAGCTTCTCTGGCCATCTTTTC  
CTTGATCTGAGACAGTCTGATCAGTTT

>Sequence 182

TGGATACTGCAATCGGGGGCGGCCGAGGTACATGGATACGTTCTCTTCTG  
GGGGCGGTCTCCAGTCCTTTCTCATGAGGGAGCACTCCTCTGCCTCAT  
TGCAGTGGCCTCAGGGATATGGAATTAAGATCCACCTGGTGTGATGAATA  
AACCAGACTCTCAGCAACGCAGGAAAAAAAAAACAACCTGGCTGGCGAT  
CTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAAACTCTG

>Sequence 183

TGGATATCGAGACGTCTATCGGGTGGCGGCCGAGGTACGCGGGGAGCGGA  
AAGGGAGACTGTGGGGAACCTAGGAGCAACAGCAGGCATGGACCAAAGCAG  
TGAAGGATGTATGAAAAAGATTAGCAGTGTGAATCTTGACAACTTATAA  
ATGACTTCTCACAGATAGAAAAGAAAATGGTAGAAACCAATGGAAAGAAC  
AATATACTGGATATTCAGTTGGAAAAAGTAATTGCCTATTAAGTAAT

Table 2

GCAAGCAAAGGAGGTCTCCATTAAAGAAGAATGTGCTACTCTTCATAATA  
TAATAAAAGGGCTACAACAGACCATTGAATATCAACAGAATTTGAAAGGT  
GAAAAATGAACAACTAAAAATAAGTGCTGATCTTATAAAAGAGAAGTTAAA  
GTCTCATGAACAGGAATATAAGAATAATATTGCCAACTTGTAAGTGAAA  
TGAAAAATCAAAGAGGAGGGATATAAGAAAGAAATAAGCAAACCTTATCAG  
GACATGCAGAGAAAAAGTTGAATTAATGAAGAAAAGCACAAAGAACTAAT  
AGAGAAAAAGGAGATGGAAATTCANAGTTAAATGCAAAGCTCAGAAGTCA  
AAAAAAAAAAAAAAAAATGAAATAATCAAGCTACAACCTAGAANTTGATGCCA  
AACTAGCAAGAGTTCAGACTAAATCAAAATCTATCAGGATTACTTGTTT

>Sequence 184

TGGATGATGCTCATCGCGGGCGGCCGAGGTACATGGATACGTTCTCTTC  
TGGGGGCGGTCTCCAGTCCTTTCTCATGAGGGAGCACTCCTCTGCCTC  
ATTGCAGTGGCCTCAGGGATATGGAATTAAGATCCACCTGGTGTGATGAA  
TAAACCCAGACTCTCAGCAACGCAGGAAAAAAAAACAAAACTGGCTGGCG  
ATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTG

>Sequence 185

GCNNNATGATTANTCCTTACCGGCCGCCCGGCAGGTACGCGGGGGTGTCC  
GGCGATGGGCACGGGCATTTCTTCGTTTATAGCTGTCTGTTGCATTCTG  
ATTGGGAACACTGGGATCATTTTCATCATGCCGACAGTGGTGGTAATGGA  
TGTATCCCTTTCCATGACCCGACCTGTGTCTATTGAGGGGTCCGAGGAAT  
ACCAGCGAAGCACTAAGTAATATGGATGATTATGACAAAACCTGCTTGA  
GTCTGCATTAGTTGGTGTGTGCAATATCGTTTCAGCAAGAATGGGGTGGTG  
CAATTCCTTGCCAGGTGTCTGCTGGTACAGACGGCTGTCTTGGCATTGGT  
AGAGGGTCACTGGAACATTCTTACCCACTCAAACCTTAACGAAGTGAGAG  
CAACCGGTTTCCACTACCTTTTCTTTCCCATCTAACTTATATACCAGGC  
GCGGGCGCGAATTGGAGGGACCACCGCGCCCTGTTCTTGGGAATTTCTA  
AAATCTATTATATATTCACACATTTGTAGGGGGCCATATTATAATTGTGG  
CCGCCCCCTGTGTGAAAAAAAAAACTCCCTCGGCCCTATAAAAAAGTGGGCCCC  
CCCCGGAGGGGGAATTAATAATCTAACCCCCCCCCCGGGGGGGCCCC  
CCCCCTTTTTTTTTTAAGAGAGGACACCGCCC

>Sequence 186

TGGGCCGATGGAAGCGCTCACCGCGGTGGCGGCCGAGGTACTCACAGTCA  
CGCAAAATTCACAGTCTGCGTGCACGGCTCTCCATTCTTCTTCTTGGCTTT  
ACAGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGAT  
GATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCTGCTCCGTCTTCCAGAGCGC  
TTTGTGAACCTTCTCAAATAAGAACAAGGACACACATTGTGTACGGTCAC  
GAAGATCATTCAAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACTC  
TGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAACCAATCTATTTC  
TTCCAGCTTCTCTTGCCATCTTTTCTTGATCTGAGACAGTCTGATCA  
GTTTT

>Sequence 187

NGGATGATTGCACTCACTGGTGGCGGCCGCCGGGCAGGTACCAGAGAT  
TCCAGAGAGTGGTCTTTGGAATTTCCCAACTCCTTTGCTTCAGTGCCCTG  
ATCTCTGAACTAACAAACCAGAAAGAAAGTGGCAGCATGGACTTATCATT  
CAGCACAAAAGCATACTCATGGAATATTTCCCGTAAATACTGCCAAATCG  
CTACACAGACTTAGTGGCCATCCAGAATAAAAAATGAAATTGATTACCTCA  
ATAAGGTCCTACCCTACTACAGCTCCTACTACTGGATTGGGATCCGAAAG  
AACAAATAAGACATGGACATGGGTGGGAACCAAAAAGGCTCTCACCAACGA  
GGCTGAGAACTGGGCTGATAATGAACCTAACAACAAAAGGAACAACGAGG  
ACTGCGTGGAGATATACATCAAGAGTCCGTGAGCCCTGGCAAGTGGAAAT  
GATGAGCACTGCTTGAAGAAAAAGCACGCATTGTGTTACACAGCCTNCTG  
CCAGGATATGTCCTGCAGCAAAACAAGGAGAGTGCTCGAGACCATCGGGA  
ACTACACCTGCTCCTGTTACCCTGGATTCTATGGGCCAGAATGTGAATAC  
GTGAGAGAGTGTGGAGAAGTTGAGCNCCTAACACGTGCTCATGAACTTG  
AGCCAACCTCTTGGAACTTCTNCTTAACTCGCAGTGGAGCTTCACTG

Table 2

CACTTGACGGTACCTTGGGCGNTCTAAGACTAAGT

>Sequence 188

GGAGGATGTGCANNNTNTTTTTGAANANGCGACTCCACCGCGGTGGCGGC  
CGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGTAACCTACAGGTGT  
CAGATGCATCACAAAAGCAGAAAGTGCCCTTTCAGCTCTTCTCTGTGCCAT  
TCCTTGTCATTTTCATGCTGCCTACAGCAACAGCATAATACTGCAAACAG  
CCATGATGTCANCTCGAAGTGNTCTCTGTGATTGACAGAGAGGGACACGT  
CGTAGTCAAGAGGTGTGCTCCTCAGAAGAATATCAGAACTCAACTCGCTG  
TGCCTCCAAGGGGCTCAATCCCTTGATTGAGGGGAGGGATGNAAATATT  
CTCTGCATGAAGAGAGCNAGCGGATGGGAAGTGATACTAGGTATGTAAAG  
GATGGTCAGTTACCTCTAAATGTAAGTTAGACCAGGACAGCCAGAAATCAC  
CGAAGGCTTGGTTAAGGTCCCTCTGTAAACAAGGCCGTAGAAGGCCCAGA  
AATGTNGGTGACAGCGAGACACNATTTCTTAAACTCTTACANCTTGTGT  
AAATGAGTAAGAAAGGTGACANTTTGTTTTGGAAAATCCCCCTCCCCAGC  
CCTTTTGTTCCTCAAGAACTCAGTTATTCAATTTTCTGGTGCCCTAA  
CATACAGTAGTTCCTTAAAGATAAAACACTACCTACTTGCAACAAAATCA  
TNAGAAGTGCCAGAGCCATTACCAAGATGGGTTACCATAAGAATTAAAAA  
AATATTATTGCAAAAAAATAAAGGTTCTAAAAGTTAAAAATGGGATTA  
AGATGGTAACTCTTACCTAATCCCTAAAAATGGCTTGTATTAAACCGAA  
CCGGCTTGGTACAAAACACCGTGGTTTTAATCTACCCGGAACCTTGGTC  
TAACTTCCCTTCCCTGACAATCTTAAATACCT

>Sequence 189

CCGGCAGGTACGCGNGAAGGAAAGCAGCTGCAAACTTCCCATCTGCAG  
TGTTTGTGTTGCTCGGCTCCGGCCATCACTGCCACGATTACCCCTGGATG  
AATTCCTCAGTGGAATATCAACAAGACTCAGCCACCTGCACCCAGGTG  
ATTAAGAAAGCTTTATTGCTCACACAAAGCCTGTTGGTGGTCTCTTACA  
TGGACGCGCGGACATTTGGTGCCCTGACTTGGATCAGGGGACCTCCCTT  
GGGAGATCAATCCCTGTCCCTGCTCTTTGCTCCGTGAGAAAGATCCA  
CCTACGACCTCTGGTCTCAGACCAACCAGCCCAAGGAACATCTACCAA  
TTTTAATCAAGAATATTCTGTGAAAAAGACTAAGATATCAGAGAAATTA  
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AAGACTCTTGTCTTGAGAAGACACAAAGAAATCACATCATCTTATTGGGA  
TTACTGGCTAGCCATATGCAGAAGATTGAAGCTGGTCCCTTCTTACACC  
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TATAAAAAACCCCTGGAGGACAATCTATGCAATACCATTCTGGACATATGA  
AAAAAGCAAAGGATTTCTGTGCAAAACACCAAAAGTTATTTGAACCAAAGC  
CAAAAAATTGACTGGTGGGATCTAATTAACGTGAGAACTTCTTGACAGCC  
AAAGGAAATTGCGGCCGAGTAAATAGACCATCTTAATAATGGGAGAAAAAT  
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TGTTTCCAAATCCC

>Sequence 190

TGAATGATCTGATCGCGGGGCGGCCCGGGCAGGTGCCATCGCCGTCC  
CATTGCTCACAGGGACTGGGAAGGCGATGCCTGGCGGGAGCTGCTGGTGG  
AGAGACTCGGGATGACTCCTGCTCAGATTCAGGCCTTGCTCAGGAAAGGG  
GAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAAAC  
TTTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAACTAGAAA  
ATCAAGCTGTACCCTGATGCTACAGACGAGGACATCACCTCACACATGGA  
AAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTTGCCAGGACC  
TGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGACAGTTATGAAACG  
AGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCACAAGCAGTCCAG  
ATTATATAAGCGGAAAGCCAATGATGAGAGCAATGAGCAATCCGATGTGA  
TTGATAGTCAGGAACCTTCCAAAGTCAGCCGTGAATCCACAGCCATGAAT  
TTCACAGCCATGAAGAATGCTGGTTGTAGACCCCAAAAGTAAGGAAGAGG  
ATAACACCTTGATTTTCTATTN

>Sequence 191

TGGGAAGTGATCTAATCCCTCTACCGGGAGGCAGACGCCCCGGGCAGGTAC

Table 2

TCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTCCAG  
GGTTACCCTCCTGTAAGTCTTCTGCTTAGTGTTGAGAATTGGGGGATGCT  
GGGACTGGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATGCCTG  
TTGGGTTGCCTATGGATCATTCCCTGCTGGGCTCACTACCGGCTTCGTA  
TAAGGTCCCTTTTGGAGGTTTATTATTCCTTGTCCATATACTTGATGCTC  
TTCATTGGCTTGTCTGGGACCTGCCTTAGGTTCTCCGAGGCATAAAAGGG  
CCGGACAGCCCCGAGTTGGGGGAACTCTGAAGCTTCTTGGTGGCTGGAA  
CCTTGGTCATCTTAAAAATCCTTCAGGTTTTAGCCTGTGCCCCAAGACA  
AGGATTTTCCAGAACTTCTACTTCAGTAGTTACTGGTATGAGAAGTTT  
CGGCAACTTCTCCCTGATCCCCAAGTCCCAATTACACGAACTCCAAGCGG  
TTTGCTTCTNCCGCGTACCT

>Sequence 192

GAATGATGAAGCCCTCTACCGGTGGCGGCCGCCGGGAGGTACTTTTT  
TTTTTTTTTTTTTTTTTTTTCTGGCTTGAATACAGCTGAAATAACTG  
AATTTTCTACTTGAACGTGTGTGCCTCTCCACTGAGGGGCCAAGGCCCT  
GGAAATGTAAAGGGCCAATCTTTGTTACAGAGGGGTTTATTGCAGTGAAG  
GGCGGGTCTGCAAAGACAAACAGGTCTCACAGATAGTTGCCCCCGCTA  
CCT

>Sequence 193

ACTGTACAGATCTAGTACTTTATCATACTTAATACGTGTGTATGTTTCAA  
CAACGATTATCTGTATACAATTCTATAATTTATATAGAATATCTTATAAT  
GGTTTGTATAATTACGTTTTTATTAATAATTACANNTANNATGGGGCGTTG  
AATTAGATGCGCCTATCGGGNGCGGCCGAGGTACCGGGGGCTGTAGTG  
GCTTCGTCTTCGGTTTTTCTTCTTCGCTAACGCCTCCCGGCTCTCGT  
TAGCCTCCCGC

>Sequence 194

CGCGCATCTTGTGTCTATAGTTAAATCATCATCTCTGAGATCACTATTAA  
TTGTACCGTATTGCAATTTCTTCAGATGATGATTGAACAATAGCTTATG  
TGATATCATGTACGTCTGTTCTTTCTCAANCCNTTGGGCGNAGATGATT  
GGGAGACNCTCTCCGCGAGGCGGCCGAGCGGCAGCTACAACAACCGCG  
TCGCTCTCCGCTCAATTTCCAAGAGCCAGCTTTGAAGCCAAGTGCCCCG  
CGTACCT

>Sequence 195

AGGACGATGGTCGNANNTGCAGCNTTACCGCGGTGGCGGCCGGTGTGCTG  
TGCTCAGCTGCCTTCCAAAGGAGGAACAGATCGGCAAGTGTCTCGACGCGT  
GGCCGAAAATGCTGCCGAAGAAAGAAATAAAAAACCCTGAAACATGACGAG  
AGTGTGTAAAGTGTGGAATGCC

>Sequence 196

TGGATGATGCGCTACCGCGGGGCGGCCGAGGTACTTTGAGCTCATAAGC  
TGGTATAAAATATCAAACATTTTGAAGTTTAAACAACCTCAAGATATGTT  
TTGCAAAATTACAAAACATTATACAGGTGACTTAATTAATATCTACTCCA  
ATTATACACAACACATCATGCTGAAGATTTAGATTTATTTGAAAACACTT  
AGTCTAATTTATATTAGTGCAGAAAAATCACATTCAATAAACCACAATTG  
TAGAAGAGACAGATAAGTGTGTTTGTACATTTTACACAAATATAATTT  
GATATTTAATTAAGGGATGATGAA

>Sequence 197

TTCTATCGTATGTATATATCTATACATGTCTTATCTATGTGTCTATCTTT  
TATTTGTTTTTGCATCTATATTATTTTAAATGCGTGTATATATCTATNT  
ATTTTGGTGTATGCGTTCTCGNGTGGCGGCCGATGTACCTGCCTCACAGT  
GCAGGGCGGTATGCCGCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTG  
GGAGCGCTCACTAACTCCATGATGATGCA

>Sequence 198

CTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGAC  
CAAGGTGTGAATGTGGGAATGAACATGGATCCATCCCATTTGGATGGAGAA  
GAAAGGTGGACAGCCTGTTCTCTCATGTCAGCCTAGGGCTGGGAACA  
GTTTGTGAGGACTTATCTGTTGTACCT

Table 2

quence 199

GTACTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGC  
GACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTTGGATGG  
AAGAAAGGTGGACAGCCTGTTCTCTCATGTACAGCTAGGGCTGGG  
CAGTTTGTGAGGACTTATCTGTTGTACCT

quence 200

AAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGG  
TTATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCT  
AGCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCC  
TTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGG  
C

quence 201

GTCGTGTTCTACTAAGTATATTACGTGTTCTTAATCTAGTATTATAC  
TTTCTAATATACTCTCAATCTTATTTTGTATATTATAATTTTGT  
TATATTATTATTACATATCCAATANATCATTATATGGTAGTTGTCCG  
GGCGGCCGAGGTACTCGGGCAAAGAGGGTGACAAGTTCAAGCTCAACA  
TCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGCCAGCTTCTTGGGG  
AAGGACAGATGAAGCT

quence 202

ACTGTGTTTATCTATTTTCATGTATCTGTAATTCTATTTATCTATCTAT  
AATCTTTTTTATTTCTTTATTTCTATTTTATCATATATTGTTTTATATAT  
NCNNTTGGCTTTGTCTTTGGCGCTCTGGCTGCCGTGGTACTTGGGGCA  
GAGAGGGTTTCAGAGGATCCTTGTGAAACACTAGTTAAAAGATGACGA  
GGGGAGAAGTGCGAGGAAAGAAGGAAATTAGTCTGACTGGCTTTCTGT  
TGCACCATTTGATTCAATGGAGACTGGCGGGAGGAAATGGAAGACTAGG  
TGGAGATGGGATGGGTGGGGCAAGGGATGGAAAGGAAAGGCAGACAA  
AATGCGTTCCATTTATAACAAGTAATATATATCAAAGACTTAAAGGAG  
TAAAGACCAATCAGAATAATTTGGCACTTTAATTTCTAGGAAGATCA  
GTTCCCTCCAAACCTAATTTGATGTTTTATTACTAAAAGCAAAGACCA  
ATGGTACCTGCCCC

quence 203

TTTCTGTTTCAATTTTCTCATAATGGATCTATTTATTGTACTGTTTAT  
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ATNTNCCNCTINTTGGTGTGTCAGTNACCGNGTTGGCGGCCGCCCGGG  
GGTACGCGGGGAAGTCTTTCCCTTTCTCGTTCCCCGCCATCTTAGCGG  
TCTGTTGGTTGGGGGCCGTCCTTAAGGCAGGAAGATGGTGGCC  
AAAGAAGACGAAAAAGTCGCTGGAGTCGATCAACTCTAGGCTCCAAC  
TTATGAAAAGTGGGAAGTACCT

quence 204

GATGTAGTTGATGCGCTCACC CGGTGGCGGCCGAAAACTGATCAGAC  
TCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGAT  
GGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAA  
GTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTGA  
CAATGTGTGTCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGG  
GACGGAGCAGGGGACTGTCTAGGGATCCTCAATGCCAACCCCATGAA  
CCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCATCTCAGA  
GTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAG  
GAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGAAGTGA  
ACCT

quence 205

ATGTGNTTTTGAAGCCTCTACCGGGTGGCGGCCGAAAACTGATCAGAC  
TCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGAT  
GGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAA  
GTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTGA  
CAATGTGTGTCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGG  
GACGGAGCAGGGGACTGTCTAGGGATCCTCAATGCCAACCCCATGAA



Table 2

GCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGA  
AGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAG  
AAGAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGAAGTGTGA  
GTACCT

>Sequence 206

GGCGATGGATTGATGCGCTCTCCGCGGTGGCGGCCGAGGTAAGTACTCACAGTC  
ACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCC  
CTACGACAGTCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAAGTCTCTCCA  
AATAAGAACAAGGACACACATTGTGTCAGGTACGAAGATCATTCAAGTTT  
CCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCT  
TCAATATAACCCCAATGTACCCCAATCTATTTCTCCAGCTTCTCTCTG  
GCCATCTTTTCTTGTATCTGAGACAGTCTGATCAGTTTT

>Sequence 207

TGGATGATGAATTGAGCTCCCCGCGGTGGCGGCCGCGCCGAGGTACATG  
GTTCTTCTTAGAAAGTGGTTCCTTAAATGTGTTCTTTTTACCCCTT  
TCTTCTTCTTCTCACAGATGTTTCTTCTTCTTCTGCCACTTTTTCTTCT  
TCCTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAATTAACA  
CTGTATCAGATCTCATTCCTTCCAAAAACGTTTGAGTCTAGTTTTTTTC  
TGTCATTCTCATCAACTACCCAATGTTTGTGTTTGTGTTATTTTATAATTGG  
GAAGGTTCTCCAAGGCCTACCACTAACTTTAACGAATGATATAGATAGAG  
CTCAGAGCAATCTTCTCAGCATCATGAAGTCATGTATAAAAAATCAGGATT  
AAAAACAAAGGTCTGATCTCCAATCATTATTGGGAAGAAAGTCAATTA  
TATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGGTT  
AATCTACCTGCTGCAACCCTGAAAAATGTATTTACCCTTGGTGAAGCTC  
CCTATCT

>Sequence 208

GGTGATGAATCCACGATCCCTCACCGCGGTGGCGGCCGCGCCGAGGAC  
ATGGTTCCTCTAGAAAGTGGTTCCTTAAATGTGTTCTTTTTACCCC  
TTTTCTTCTTCTTCTCACAGATGTTTCTTCTTCTGCTGCTGCCACTTTTTCT  
TCTTCTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAATTA  
ACACTGTATCAGATCTCATTCCTTCCAAAAACGTTTGAGTCTAGTTTTT  
TTCTGTCAATCTCATCAACTACCCAATGTTTGTGTTTGTGTTATTTTATAAT  
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GAGCTCAGAGCAATCTTCTCAGCATCATGAAGTCATGTATAAAAAATCAGG  
ATTAACAAAGGTCTGATCTCCAATCATTATTGGGAAGAAAGTCAA  
TTATATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGG  
TTTAATCTACCTGCTGCAACCCTGAAAAATGTATTTACCCTTGGTGAAG  
CTTCTATCTATAAACTTAAGAAATGTCTTATCTTACTGGACTGTTACTG  
ATTTAAAAAGAT

>Sequence 209

CATACTATATAATATTACGATATAATGATTATATCGATCTTCTAACTTA  
ACTATGTATATAATTATAAAAAATAATTAATACTACGATGAGTATATCTTA  
TGATCAACTACCAAATCTGTATGATACGTATCTCCACCGCGGCGGCGGA  
CGAGGTACACGACATAGGCACATGTGCAAAACAAAGAAGGTGGGCTGCT  
GCTTCTTTCTATCTGCCCTAGACCAGGCTCCTTTGCTTCACGTAAGATG  
GAGACTGTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCAGGAAGA  
AACAAATCCTCACTGCCTATAAACTGTAGTCACATGTGGGATAGTCAATA  
GAACATGAGAATCAGAACAACTCTGGGCAAAATGGGTATGGCAAGAATGGGA  
ACACCACAACAGGACAGATGCCAACTCTCATTATGCCAGGCCTTTTGGC  
ATATGGGTGCCTTCTGTGCTTCTTTCCACCTATTCCTTCAGTCTCAACA  
ATCTCTTTGACCCTGACCGGGCG

>Sequence 210

GGGATGTGATTTTCGCTCACCGCGGTGGCGGCCGAGGTAAGTACTCACAGTCACG  
CTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTA  
CGACAGTCCCCTGCTCCGTCTTCCAGAGCGCGGTGTGAAGTCTTCCAAAT  
AAGAACAAGGACACACATTGTGTCAGGTACGAAGATCATTCAAGTTTCCA

Table 2

TATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCA  
ATATAACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTTGCC  
ATCTTTTTCTTGATCTGAGACAGTCTGATCAGTTTT

>Sequence 211

TGGGCTATGATGTCGCTACCGCGGTGGCGGCCGAGGTA CTCACAGTCAC  
GCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCT  
ACGACAGTCCCTGCTCCGTCTTCCAGAGCGCGGTGTGAACCTCTCCAAA  
TAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTTCC  
ATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTC  
AATATAACCCCAAATG

>Sequence 212

CAGTCTACATCTAGTNTCTCTTTTCATNATCTTGTTATAGATGTATAACT  
ATCATCCTTCTGTTTACATATACCTTATTGCTGTATTATGGATATACATA  
TATCAATTTACATTAGTTAGAATTTTATGTCTATAAACAACCAAGACGAT  
GATTTTCGAGCCCTTACCGCGGNGCGGCCGCCCGGGCAGGTA CTTTTTA  
AATTTTTTTTTTCTGTAGAGACGAGGTCTTTCTATGCTGTT CAGGCTGA  
ACTTCATGGGTTTATTGGGGATGGCTAATGGATGACATTGGCGGTGGTCC  
TTGATACCAGATAAGCCCTCAGTGTGAAGCAGCTCTATTTTTCCTTGTC  
TTGAGATTGCTCTGGAATGGAAATTAGGCTTTTTTGAAGGTGTGACCCTT  
TTTGTTCAATTTCTTCAGCAGTTACTTTTTAATTTTTAAATGTTTGACACA  
CAGTCTCTGATAAATGATCATTCACCAATCACCGATTACTCTCCTTGCTC  
TGTTAAGTGTGACACTGTCCCTTTGAGAATCTGGCGACAGCTATGTATCC  
CATAACCACACACCCCCAAAAAATTTATGTCTGGTTCAGGAGTT  
ACCTTTTATGAGAAGTCCATTTGTGAAGAACCTGGATGTT CAGAGAATT  
CCTGGGAAACACTGGAAGAAAATAAGAGGCCGGGCCGGGGGCTCATGC  
TTGGAATCCCCACACTTTGGGAGGCTTAGGTGGGCAAATAAACTGGGGTC  
AGGAGT

>Sequence 213

TCTCCCTCGTACTCGATCATCAGAGTATACATATGAGTGTACTCTANTAC  
TACTACGATCTCTATACTAAAGTTATCCTATTCACTTTAGTGCCATCTGG  
TTCTATATGAAACTCTAATATAATCATAGCGTGTTATATATACTATAT  
ACATTACCATGGCGGTAGATTGGAAGCCCTATCCGCGGAGGCGGCCGTTT  
GAGAAGCCAGCGCTACCCACCCGGGGTCTCTGTGCATTGACCTTTGGGT  
GCTGACTTGGAGAAAAGCACAAACACGACCAGTCCCCCGCGTACCT

>Sequence 214

TGGCGATGTTTGATCGAGCTACCGCGGTGGCGGCCGAGGTACATGCCTA  
CAGATAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACC  
CAAGAGGCGTAAGTTGCAGTGAGCCGAGATCATGGCACTGCACTCCAGCC  
TGGGTGACAGAGAGAGACTCCATAAGAAAAAAGAAAAAAGGGGGGCA  
AAAAAGAAACAGATGAAACCAATGTGAATAATTTATTTTAACACAATATAC  
CTAACATATTTTTATTTCAATATCTAACCAGTATAAAAAATTTACTTGTTT  
TGCCCTCTAGAGATAGTAAGCTCCTTAAGTAAACAGAAGTAATACCTGAT  
TAATTAGAATTCCTAACCTCATCAAGTGTGTGCTTATATAGAAGAAACC  
CAGTAAATGTTTGTGATTGAAAGATATTAATACTCTTGCTTGATGAGA  
GTGAGGAAAAAGGTATTAGTATTGGCTTTTACAACCGCTGGACCTGCC  
CGGGCGGGCGCTCTAGACTAGGGGGA

>Sequence 215

TTTTAATGTGCATCTCGCAGGGCGGNGCGGCCGAGGTA CTTTGGAGTCC  
CCTGGTTTCTAAGAATTGCCGTTGACTCTTTCTTTGGCTTCTGCTGGCAC  
GGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTTTGTCATGGAAGCCG  
CGAGCGTAGAGGTTCCGCGTGCTCTGCCGACTTGAGCAGGTCACTGGGT  
CCTTTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTG  
CCACTTCTGCCCCGGTTGTTTACAGGCTGTCTGGTACGAGATCTCCGACC  
AGTCTGGGGGCGCTGGCGGCTGCGCAGCCACCTCAAGATCAGAGATTCT  
GCTGGCCATATTCTCTACTCCAAAGAGGATGCAACCAAGGGGAAATTTGC  
CTTTACCACTGAAGATTATGACATGTTTGAAGTGTGTTTGAAGCAAGG

Table 2

GAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCATGGA  
GTGGAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAGCTCAAACC  
ATTAGAGGTAGAGCTGCGACGCTAGAAAGACCTTTCAGAAATCTATTGTTA  
ATGATCTTGCCTACATGAAGAAGAGAGAAGAGGAGATG

>Sequence 216

GGGTGTTGATAGATCGAGCTCCACCGGTGGCGGCCGAGGTACTTTGGAG  
TCCCCTGGTTTCTAAGAAATTGCCGTTGACTCTTTCTTTGGCTTCTGCTGG  
CACGGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTTTGTATGGAAG  
CCGCGAGCGTAGAGGTTCCGCGTGCTCTGCCGACTGTGAGCAGGTCACT  
GGGTCTTTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGC  
ATTGCCACTTCTGCCCCGGTTGTTACAGGCTGTCTGGTACGAGATCTCC  
GACCAGTCTGGGGGCGCTGGCGGCCTGCGCAGCCACCTCAAGATCACAGA  
TTCTGCTGGCCATATTCTCTACTCCAAAGAGGATGCAACCAAGGGGAAAT  
TTGCCTTTACCACTGAAGATTATGACATGTTTGAAGTGTGTTTTGAGAGC  
AAGGGAACAGGGCGGATACCTGACCACTCGTGATCCTAGACATGAACATG  
GAGTGGAGGCGAAAAATTACGAA

>Sequence 217

TGGTNTACCGTGACCTCACCGCGNGGCGGCCGAGGTACTATCAAACAA  
CATGATACAATTTAAATGTGTATAGCAACTACTAGTGGTCACTGAAAT  
CCATTTTCCCCTCCTTCACAGTAAGAGTTTGTAGCTGAATGAGTGGCCACT  
CATAGAGAGATTGCATTTCTGGCTTCCCTTGCAAGCATAGGTAGCCATGG  
GACAAAGTTCTAACCAGGGGGGGTCCAATCTTTTGGCTTCCCTGGGACA  
CACTGGAAGAAGAAGAATTGTCTTGGGCCACACATAAAATACACTGGCAT  
CAAGGATAGCTGATGAGCAAAAAAAAAAAAAAAAAAAGTACCTGCCC  
G

>Sequence 218

GGGGNATATGTGCGCTCCCGCGGTGGCGGCCGAGGTACCATCCTGTTCCA  
CAGAGCCATTGCCTATTCTAAATTGAATCCGACTGGGCGTGCCCTCCT  
CGGAACACAACAGTAGACCTTAATAGTGGAACATCGATGTGCCTCCCAA  
CATGACAAGCTGGGCCAGCTTTCATAATGGTGTGGCTGCTGGCCTGAAGA  
TAGCTCCTGCCTCCAGATCGACTCAGCTTGGATTGTTTACAATAAGCCC  
AAGCATGCTGAGTTGGCCAATGAGTATGCTGGCTTCTCATGGCTCTGGG  
TTTGAATGGGCACCTTACCAAGCTGGCGACTCTCAATATCCATGACTACT  
TGACCAAGGGCCATGAAATGACAAGCATTGGACTGCTACTTGGTGTCTTCT  
GCTGCAAACTAGGCACCATGGATATGTCTATTACTCGGCTTCTTAGCAT  
TCACATTCTGCTCTTACCCCCAACGTCCACAGAGCTGGATGTTCTC  
ACAAATGTCCAAGTGGCTGCAAGTGGTGGCATTGGCATTGCATATCAAGGG  
ACAGCTCACAGACATACTGCAGAAGTCTGTTTGCTGAGAA

>Sequence 219

CACTACTCATCTCATATAACTCGATTTGATCATTTATACTAAATACTTCT  
CATTTTTTTTATTATTTTACTACCAAATCTTATTTCTTATATAAAATAT  
TTAAAAATACNCANAGGGGGCGTTGGCTTGAGGCCCCCTCCGCGNGGCG  
GCCGNTATTGGTGGTGAAGACCCGTAGCAACAGTGGGCATGTCTTCTCGC  
GGTCGATCGGTTTCTCTGGCTCCTTTTAA

>Sequence 220

GATATGTTGAACCNNTTAGAGACGCTTCCGCGGTGGCGGCCGAGGTACC  
ATGATATCATGTATCCTGCTTGGACATTTTGGGAAGGGGGACCTGCTGTT  
TGGCCAAATTTATCTACAGGTCTTGGACGGTGGGACCTCTTCAGAGAAGA  
TCTGGTAAGGTCAGCAGCACAGTGGCCATGGAAAAAGAAAACTCTACAG  
CATATTTCCGAGGATCAAGGACAAGTCCAGAACGAGATCCTCTCATTCTT  
CTGTCTCGAAAAACCCAAAACTTGTGATGCAGAATACACCAAAAAACCA  
GGCCTGGAAATCTATGAAAGATACCTTAGGAAAGCCAGCTGCTAAGGATG  
TCCATCTTGTGGATCACTGCAAAATACAAGTATCTGTTTAAATTTTCGAGGC  
GTAGCTGCAAGTTTCCGGTTTAAACACCTCTTCTGTGTGGCTCACTTGT  
TTTCCATGTTGGTGTGATGAGTGGCTAGAATTCTTCTATCCACAGCTGAAGC  
CATGGGTTCACTATATCCCAATCAAAACAGATCTCTCCAATGTCCAAGAG

Table 2

CTGTTACAATTGTGTAAGCAAATGATGATGTAGCTCAAGAGATTGCTGA  
AAGGTGAAGCCAGTTTATTATGT

>Sequence 221

CATGCATCTCTCTNTGTCCATCACTATTTTGTAAATATCGATATTATAATG  
TCGATAAGTATCTNTTGTGTATGTATTTTATACTGTCTATCGATCTATC  
TGTTATTATNTAATAACNANANCAGANTTGTGACCAATTTCTGAGGCNC  
GTCGCCCGGGCAGGTACAGCAACAAGAATCAGATGCTCTTTAGAGATCCT  
CCATTTCACTACTCTAACATTCTTCAATGTGGTTCCAGCCACGCATAGTC  
ATATAGATACTACATATTCAAAGATAACTTACTGAAGCTTGTTCACAGAA  
CCAAGCTTTCTCTGATAGCTCTTCTTCCCTACCCCGCACTTTTGAAG  
TATTACCCCAAAATGCTCTTCAGGATTTAAATAACAATTTTAAAAAGACA  
CTTAACACCACAAAAATGGAATTTGCTGGCATGACGGAACAATACGGTTA  
CTCCAGATGCTGTATTCAAATGTATGGGTCCGTTGAAAAAATAGATATA  
ACCATTTTTCTCATAGACAGCATCTACTTTATCAACAATTCCTGGGAAGT  
CTTCTTCTATTAGTCTCGGATAGTCTTTATCCATAATATGGCTAGTATCA  
TCATATCTCCAGACCTGGTTTCTGAGAACAGGAGAGTCTTGCTGTATC  
CTCAAAGTGAACAGCTGCACTTATCTTCTAACTCTTTTGAAGACCCA  
GTTTCAGATATTTTTTGGGATAACCTTCCAAAAATGTCATAACCATT

>Sequence 222

TCATCACTCACATTCAGTATCCTCTCATTGTTAGTCTAATTACAATCGTT  
CTAATATCACACTCGTATTTTATAATATGTTATAACATGTTGACTTATGT  
TCTAGGAGATATCACTTATATTAATGCACTTAGTGGGGTTGATTTCGAGTC  
ACACTCCGCGGAGGCGGCCGAGGTACGCGGGGAGTGTAACTATGGCCGGC  
CTGCGGAACGAAAGTGAACAGGAGCCGCTCTTAGGCGACACACCTGGAAG  
CAGAGAATGGGACATTTTAGAGACTGAAGAGCATTATAAGAGCCGATGGA  
GATCTATTAGGATTTTATATCTTACTATGTTTCTCAGCAGTGTAGGGTTT  
TCTGTAGTGTAGTATGTCATATGGCCATATCTCCAAAAGATTGATCCGAC  
AGCTGATACAAAGTTTTTGGGCTGGGTTATTGCTTCATAGTCTTGGCC  
AAATGGTAGCTTCACCTATATTGGTTTATGGTCTAATTATAGACCAAGA  
AAAGAGCCTCTTATTGTCTCCATCTTGATTTCCGTGGCAGCCAACCTGCCT  
CTATGCATATCTTCACATCCAGCTTCTCATAATAAATACTACATGCTGG  
TTGCTCGTGGATTGTTGGGAATTGGAGCAGTTTTTCAGAACTGTTTACA  
TTCCTTGGAGAAAAAGTGTGACCTGGGATGTGATTAACTGCAGATAAAC  
ATGGTTCCACACCCGGTTACTTAGCGCCTTC

>Sequence 223

TGAGGTTGATTGCACTCCGNGTGGCGGCCGGAGTGATGCCATCTGCAGTT  
TTGTGATCTGCAATGATTCTTCCCTTCGAGGTACGCCATTATCTTTAAT  
CCTGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTAC  
TGAGTTGGTGGTCAGCAATATACAAGGCTCATCGATTTACCTGGAAGT  
AGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCT  
GGCCACAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGA  
AAAAGGAGTGATATTGGGTCCCACTGACGGAGGAAGGCATTGCCAGAG  
TATACCAACTGATTGAGTATCTACACAAAACTTGCGAGTAGAGGGTTG  
TTTAGAGTACCT

>Sequence 224

TGGAATGTTGGACCTCTTCAAGGCGCGGCCCGCCGGGCAGGTACTCCCT  
GTAAAGGGGAATTTCCATGCCGTCTACAGGGATGACCTGAAGAAATTGCT  
AGAGACCGAGTGTCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTGGT  
TCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTTC  
CTCATTCTGGTGATAAAGATGGGCGTGGCAGCCACAAAAAAGCCATGA  
AGAAAGCCACAAAGAGTAGCTGAGTTACTGGGCCCAGAGGCTGGGCCCCCT  
GGACATGTACAGACTCTCATTTTATGATGTATCCTACTGCATCAGGACAT  
TTGTGTCAATGTCAAGTGACGAGGGGAAATGAAAGTGATGAGACGATGAG  
AGGAGTGAAATACCAAGGACGCCATACTAGGAAACCCAGGTCTATTTGTT  
ATCAGAGTAAGGATCAAGCCAGATAGCCTGTTATGTAATTTCTCCGATAA  
AAGATTTTGAAAGCAGGTGCTGTGGGCATCTGTATGGGGAATCGCACTCA

Table 2

TAGAATTATTTTCATTTGTAAATATTTGGTATCAGGCCAAGCAAGGGAAA  
GAAGCTTTACTGTATTACCATCTTT

>Sequence 225

GGGCGATGATTGGTGGCGCTCCCCGCGGTGGCGGCCGAGGTACTCACAGTC  
ACGCAAATTCACAGTCTGCGTGACGGCTCTCCATTCTTCTTGGCTT  
TACAGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGA  
TGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGG  
GTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTCCAGAGCG  
CTTTGTGAACCTTCTCAAATAAGAACAAGGACACACATTGTGTCAGGTCA  
CGAAGATCATTCAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACT  
CTGTGGCGTAACCTTCTTCAATATAACCCAAA

>Sequence 226

TTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACCGGGGATGGATA  
GCCGCTTGCAGGAGATCCGGGAGCGGCAGAAAGTTACGGCGACAGCTCCTC  
GCGCAGCAGTTGGGAGCTGAAAGTGCCGACAGCATTGGTGCCGTGTTAAA  
TAGCAAAGATGAGCAGAGAGAAATTGCTGAAACAAGAGAACTTGCAAGG  
CTTCTCTATGATACCTCTGCTCCAAATGCAAAACGTAAGTATCTGGATGAA  
GGAGAGACAGATGAGGACAAAATGGAAGAATATAAGGATGAACTAGAAAT  
GCAACAGGATGAAGCTTATCATCAATTCATTGTATAAAAAATAAGAGATT  
TTCCTGAGAGAACTGATTTCAAATGCTTCTGATGCTTTAGATAAGATAAG  
GCTAATATCACTGACTGATGAAAATG

>Sequence 227

TGGTTGTTTCNNNTANNATTTGAAGCGCTCACCGCGGTGGCGGCCGCCCG  
GGCAGGTACGCAAAGTGATTAGAGAACGCTGGGGCTCACAGGCGCTGTA  
GCAAACGTGCAACTCTTGAGGAACACTTAAGACGCCACCATTCAGAACAC  
AAAAAGCTACAGAAGGTCCAGGCTACTGAAAAGCATCAAGACCAAGCTGT  
TACTAGCTCTGCGCATCACAGAGGGGGGCGATGGTGTTCACATGGGAAAT  
TGTTAAACAGAAATCAGAGGAGCCATCGGTGTCAATACCCTTCCTACAA  
ACTGCATTATTAAGAAGTTCAGGGAGTCTTGGGCACAGACCAAGCCAGGA  
GATGGATAAAATG

>Sequence 228

GCATAGGAAAGACTTGGCTGTTGGGAGGGGCGTGTCTTACACCTTAGGAA  
GAATCCTTAGCTGTACTTTCCTGTCTCTCCTGGAGCTCCCTCCTACCCCC  
TAGCTGAGTAGGCCAGGTTTGGTGCAAAATCTCCCACATTGGCAAAGTT  
CCTGCATATGCTGCGCAGTATGTGCCTTGAATAAAAAATCCTGAAGATTAG  
ATGTTTCAGGCTGCATCATCCAAAGCAAAGAGCACCTCTTTGAAGCTCA  
CCTGCCCCGGGCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTCAGTATG  
TAGCTTTAAACAGTTACATATAACATGGAACAGTATGACATGAAAAGAG  
AGAGGTTTATAGAGGGAGAATGGAATTGGGACAGCCCCTGCTTACCGAGG  
TTGCCCCCTCCAGTCCTTGATTCTTTTGATCCCAACTTCCTGTTTGGCTG  
AAAACGGCTGGAGCTTGCTCCTTGCAATTCCTTGCCCTTACAAAACCTGGACT  
TCTGGCCCATCTTTTAATTTTGATTTTTTCTTAGGAACCCCGTTAAAGGT  
TTTGTGGGAG

>Sequence 229

TGATGATTGAGACCTCTCCGCGGGGCGGCCGAGGTACTACAGGATGATGG  
CTTTCTCTCCTCTGGGTCACAGGCAGGGCCATGGAGTTGGGGAGAGAAT  
GTCTAAACCTCTGGGGGTATGAACGGGTAGATGAAATTATTTGGGTGAAG  
ACAAATCAACTGCAACGCATCATTCGGACAGGCCGTACCTGCCCCGGGCGG  
TCGAGCGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG  
TATTTTTTTTCTTT  
CAGTTTTTACTTGTAAAAAGTATTATAGAAGAGTTTTATTGGAATGTTAT  
TTTATTAAGCCATTTTCATGGGTTATTTTTTTTTTAAAGTTTAAGAAGTTT  
TTACAACAGGCTGGGGGGGGGGGTTACACCTGGCAATCCAGCACTTTGG  
GAGGCCCCGGGCGGGGCAAAATACCTGAGGTGGGAGGTTAAGAACCGGCCTG  
CCCAAATGGGGAAACCTTTGTTTTTTCTTTAAATTCCTCAATTAATTTCCA  
AAATTTAGGTCCTTGGGCGGTTTAGAAACAGGGGGATCCCCCGGCTTGAG

Table 2

GAATTCGATTTAAGCTTATTGAACCCGGACCTTGAGGGGGGGG

>Sequence 230

ACGAACTGTGGCTGCACCATCTGTCTTCATTTTCCCGCCATTTGAAGAGC  
AGTTGAAATCTGGAAGTGCCTTTGTTGGGTGCCTGCTGGATAACTTCTAT  
CCAGAAGGGCCAAAGACCCCT

>Sequence 231

TCGTTGTGTCTTCGGTCTCTTTGTGTCTTCTTATCTTTTCGTTCCCTTTC  
TGTGTTCCCTCGTCTTTGTACTTTTTTTTCTATTTTCGTCTCACACTAGAAA  
ANNNTTATGCTTTTATCAACTCCCCGCGGTGGCGGCCGAGGTACGACGT  
TTCCATCAGCTTGTCTGTTTCATTCCCTGATGTTACGAGCAATATGACCA  
TCTTCTGTATTCTGGAACTGACAAGACGCGGCTTTTATCTTCACCT

>Sequence 232

TGCACTGAGTCGGAGCGCTCACCGCGGTGGCGGCCGCCCCGGGCAGGTACT  
TTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTAAAAAAAAAAAAAGATAT  
TTTAATATATTACAGATCCACAAATATGAAATAAACTAAGTAGAGCTGGT  
ATTCATTTACACATAATTATCTTATACCGTTTGGAAATAAGAATTTGGGGC  
ACGTTAGCAAACCAAAGGCTCAAAAAGACGTCGAGATATTTAGTTCTTG  
TCTCCCTCTACAAATGTGAAGCACTCTTTTATCCGGCATTCTAGGGGAG  
TTCTATTTTCAAATTTGCAAATCATTCTGGTGCTAAGCAATCTCAAAA  
AAAACATTTACTAAAAACCAGAGGAAAAAAATCTTATACTTTGGGAGGC  
TGAGGCAGATGGATCACTGAGATCAGGAGTTTGAGACCAGCTTGCCCAAC  
ATGATGAAACCCCTTTTTTTTTTAAATTCCAAAGGTTTCTTGTTGT  
GGTGGCAGGGGCTGGAGTCCCAGCTTTTCCAAAGGCTTAGGGAGGAGAA  
TTACTTGAACCTTTGAGGCGGGGTTGCAATGAGTTTAAATCTCCCTAT  
TGACTCAAACCTGGGAACAAGGGGAGACTTTGTTTTCAAAAATAATTTAA  
AAATTAATACTTGT

>Sequence 233

TGTCCCTCCCGCTCCACACTTACAACCTTCTACATTTCCGTCTCTCGTTC  
TCTTGTGTTTTCGTCTGTGATTTTTCTTGGTTGCTCATTTGTTGTTCCCA  
TNAATNANNNCANTAGCGTTTTTCGGCTCCCCGNGGNGCGGCCGCCCGG  
GCAGGACGCGGGGCCAGTTCTCTTCGGGGACTAAGTCAACGGAGAGAC  
TCAAGATGATTCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATT  
GTAAACCTATAAACGCCAACCAATCATTATGACAAGATCTTGCTCATAG  
TCGTATCAGGGGTCGGGACCAAGGCCCAAATGTCTGTGCCCTTCAACAGA  
TTTTGGGCACCAAAAAGAACTCTCAGCACTTGAAGAACTGGTATAAA  
AAGTCCATCTGTGGACAGAAAACGACTGTGTTATATGAATGTTGCCCTGG  
TTATATGAGAATGGAAGGAATGAAAGGCTGCCAGCAGTTTGGCCATTG  
ACCATGTTTATGGCACTCTGGGCATCGGGGGAGCCACCACAACGCAACGC  
TATTCTGACGCTCAAACTGAGGGAGGAGATCGAGGGAAAGGGAATCCT  
TACTTACTTTGGACCGAGTATGAGGCTTGGG

>Sequence 234

TTCTCGTGTCTCTCGTACATATANTCCATCTTTATAAATCTCTCTGTTA  
TCCTACCTCTTCAAGTTCATCTATTATAAGTTGATCGTATTATTGTCTA  
TATACGATATTTTTACATATTACTATCTCNCNNCTCACAGCTAGTTGGA  
NCCATTTAGAGTCTCTTCGCGGAGGCGGCCGCCCGGGCAGGTACAGTAT  
AGGTTGGTTTTGCCTGTTTTGACGCTTTATATATACGTAGACACACATAC  
ACATGTATATATACACACACACATTTTACATATATATGAAACTGTATA  
ATGTGTTGCTTTCAGTGTCTGGCTGCTTTTACTCAACATTGTGAAATTAA  
TTCTGTTATCGTATATGGGATTAATAATTTGTTTGCTAGTTTTGCCTT  
CTCATTGCTTCTGAATTGGGGCAGCTTTGCCCTCAAGGGAAATTTAGCA  
ATGTCTGAGACATTTTTTATTTTTCATAATTTGGAGGGACATGGGGGAGG  
TGTGCTACAGAACTTAGTAGGTAGAGGACAGGGTTAGTGCTGAACGTTCC  
ACAGTACCT

>Sequence 235

TCTTTTCAATTTCTTGTATTCTCAATACATTCGTTGTATGTGTGCGAGTTT  
CTCTTCTCTTCGTCTTGAGTTATGTTGTTATTGATCGACTGTGCGTGATC

Table 2

GGTTTCTTTTCTATGTAAACGGCCACNNCANNNTTTCTTTGTTTCGAGTGA  
CCGCGGNGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAT  
AATAATTTTGTCATTTTTGTAGAGACAAGGTCTCCCATGTTGCCAGGCT  
GGTCTCAAACCTCTAGGCTCAACTGATCCTCCTACCTCCACCTTTGCCTC  
CCAATTATCCCCAATTGAGAGATGAAAATTCTGACAAGCTCTCAAACGTT  
AACTGACTTGCCCATAAATGACAGTTCCAAAGTTATAAGGCTAGAAC  
>Sequence 236  
GCGAAACTAACCAAGTGCTCCCTACACGCTGCTTTTCGCGCTCCCATTCCTC  
CCACTCTTAGCTCGTTGCATATCCGACGATACTCTTTGGCGGTTTTTGCT  
TNCNCNTATTTTGTGGGACGCGTGGCCGAGCGGCGGCCGCCGGGCAGGT  
ACCTACGCCACAGACAGCCAGAGGGAAAGCGACCCAGACAGCAGCCCCCTC  
CTCGACAGGCCACCCCTGCAGCTCAGGCACCAAGAAAACAGCCGATACTG  
GCAGCCATTGCAGCTCCAACTGCAGAGGCAAGGCCAATTTAACTTTTC  
AATTTACAGTCGATTTTGAAGAGCTTCTACATATCGGTTATGTAAATTCA  
TATATGTAATTTTGAATCAGTTCTTATAAACAGCTCGATTCAAGTTTGA  
CTAAATTTATAGTCTAGGTAGTATGTTACATTTGAACTTTGTCTTAAGA  
AAAGTTGACTGTTCAAGATATTTTCTACTGTAAAGAAATATACTTTTCTA  
TTAAAGATCTGTACCT  
>Sequence 237  
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TTTCACTGAGTTGGTGGTCAGCAATATCAAAAGGCTCATCGATTTACCTG  
GAACTGAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGC  
GGGGCTGGCCACGATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCG  
AAAGGAAAAAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTG  
CCCAGATATACCAACTGATTGAGTATCTACACAAAAACTTGCGAGTAGAG  
GGTTTGTTTAGAGTACCT  
>Sequence 238  
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GCAAAATCAGAGAGGGGTGCAAGATCCTGATTTTTAGGAGTTCAAGCGA  
CAATGGCAGCCCAATACGGGAGTATGAGCTTCAACCCACGACACCAAGG  
GCCAGTTATGGGCCTGGAAGGCAAGAGGCCAGAAATTCCCAATTGAGAAT  
TGTGTTAGTGGGTAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCA  
TCCTTGGCCGGAAGTGTTTCATTCTGGCACTGCAGCAAAATCCATTACC  
AAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCTG  
AGTTGACACACCAGGCATTTTCGACACAGAGGTGCCCAATGCTGAAACGT  
CCAAGGAGATTATTCGCTGCATTCTTCTGACCTCCCCAGGGCCTTATGCT  
CTGGCTTTGGTGGTTCCACTGGGCGGTTCACTGAGGAAGAGCACCAAGC  
CCCAGAGAAGATCTTGAAATGTTTGAGAGAGGACTTGAAAGTTTCT  
>Sequence 239  
CTCTTGTCTCTCCCCATTTTGAAGCTCTAAACCACTCTCTGCATAACT  
TCCATTGCTTCTTTATCATCCTAATTCTTCTACTCTTCTGCTCTTATTC  
TTTCCCCNNNCANTTGCCTTGTTCGACTCCCCGCGGTGGCGGCCGAGGT  
ACCAGTTAAGTGAACAGCTCGTCTAGGTCTGCTTTTGTAAACCCCAAATA  
CAATTAGCACTTCTCTGCTGGTATTCCCTGGGCGCTTAATTATCTAGA  
GGCCAGGAGGCAAAGCCTAGCACGTAACAAAGTATGTGCTTTGTAAGTGC  
TGATTAATTCAGTTTCTTAAGTGGCAGAGCAGGTCATCAGTGTATCTAA  
TTCACACTATTAATACACTGTCTTGTGTAAGAGTCTGACCTGCCAGAAC  
CCCGTTATGGCTAGCCAGGGAAGCAGTAACTGCAAGCAGAGAAAAGG  
GGCAGCTAAGATGAGGCTAGTGTGCTGAGTCCAGTTAGGTCTGTTAC  
TGTTCTGTTCCAACTATAAATCCAGGATGACTGTTACTCAGATTCAAGTGC  
TATGTAGAAAATAGAATGCACAGCCAAAAACATAATTTGGGGATGACTGG  
CAGCACCTTTTTTCCCTTCTTAAGAGGCTAACTG  
>Sequence 240  
TCATTTTCATGAAATTTTATTCATATTATTTTTCATAAACTCCATAGTTCT  
TTCTATGTCTACTAGTTTTATATTATCTATTTCAACTTCTTATTTTCTT

Table 2

AAAAAATATNANTTGCCGTCTGGCGCCCTCACCGGGGGCGGCCGAGGTAC  
TTTTTTTTTTTTTTTTTGGTATGACTATGAAGGCTAGTGGTCTTTTTAT  
TAGCTATCAAGTTTCATTTAACAGACAAAAAATTCAGTTCAATGGGGGCAT  
TAAAATAGGAAGAATTAAACAATAGTTCATTAATCAATCTTTCAGCTGTC  
CTATTTTATCACAATAACTTTTCTATAATTGAGAGATCCATGAGGAAGT  
CTTGAAAAGAACGTATGTTTCTTCAATTCCATAAAACATTTCAGCCAAAA  
TAATAAAAGAGGCGCTATTACTTTGTTTTGGGTGAATGATATGCAGGCTA  
GGCTTTGCTGTAGTACCT  
>Sequence 241  
GCGGTGGCGGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAGGAGGAACAGA  
TCGGCAAGTGCTCGACGCGTGGCCGAAAAATGCTGCCGAAGAAAGAAATAA  
AAACCCTGAAACATGACGAGAGTGTGTAAAGTGTGGAAATGCCTTCTTA  
AAGTTTATAAAAGTAAATCAAATTACATTTTTTTTCCAAAAA  
AAAAAGTACCT  
>Sequence 242  
GATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAG  
AAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGTTACGCCACAG  
AGTGTGAATAGTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCG  
TGACCTGACACAATGTGTGCTTGTCTTATTTGGAGAAGTTCACAAAG  
CGCTCTGGAAGACGGAGCAGGGGAC  
>Sequence 243  
TGGGCCCTTTGCCTCACCGCGGGGCGGCCGAGGTACGCGGGGTGCTGGGA  
TTACAGGCACGAGCCAGTGCGCCAGCTGCCTCTGTTCTTTTATTAGCT  
GTTCTGGACTGTGGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGC  
CACACACTTTTTGAACTGGCCCGGTCAGGGGGGACATAACCATTTCTGT  
GCCACCCCATCAATCCCCACCTATTCTGAGTGTAGGCTCCTCCCCTGCTT  
GAGTAATGGCCACAGATCTTGGCTCGGCACTCCTAAGCTGCATGTTGAAT  
TCCTGGGACAACAAGACTGGCTTGTGGTTCCATTCTCCAGATCCTTGGGT  
TGGCTTCTGGGTGCACTAGGAGATCTGAAATGCTCTCAGGCCACCAGGAA  
AGTACTGGAAGTAAAGTCTGACTCTAAAGAAGATGAAAATCTAGTAATTA  
ATGAAGTAATAAATTCTCCCAAAGGGAACCAAGGTAGAACATCAG  
ACAGCTTGTGCTTGTAGTTCTCAATGCACGCAAGGATCTGAANAGTGTTC  
TCAGAAGACTACTAGAAGAGACGAAACGAACCCTGTGGCTGTAACTTTG  
AGTGAAGACAAAAATGGCTCTTCGTGGTCCAAAAAAG  
>Sequence 244  
GTCTTTTTAGTAGGGATAAGGTTTCACCATGTTGGCCAGCTGGTCTTTAA  
CTCCTGACCTCGAGGGATCCACCCACCTCGGCCCTCCAGTGTGCTGGGAT  
TACAGGCATGAGCCACGGCACCCGGCCCTGGTTTGCTTTCTGAACCATGT  
CAATACAGTACCACCACAGTTGCTATCTCTGAACATCTTTCATTA  
ATCACCGTCTAGTTTGAGAATACTTTAAGCCTGCTGGCCTCCTTTGGGG  
CATTTCTTTTCTCTTTTCAGCACGCATCTTTCTTTTCCACTTACTCCGT  
AAGCTTTTAGCCATGTTTACCTTGAGGGCCGAAGTTAACTTCAGCGGGA  
GTGAACGACAGGGGTGGGCTCCACTTTATCCAGTGAAGTCCGGAAGCCGGA  
GGGCCCCACCAAAAGAGCAAGGGGAACCTCGCCCTCAACAAGGCCTG  
CATCTCCGACTGGAGCTCAAGTATAGCCAGCGAGTGTCAAGAAACGAA  
ATTCTTCAGGGTGGCGGAATCAAGCCCAAGTCCCATGTTTACTGACCGGG  
>Sequence 245  
GGGCGATTAGCCCTGCTCACCGCGGTGGCGGGCCCGCCGGCAGGTACAA  
TTCTTGAGTGAGTTTCATGGTCCGTAGGAGGATGACCACTAGCCCAACAC  
CTTCCACTGTTTCTACAGTCTGGCCAGCAAGTTTGAGTTAAGGCTTCA  
AAATCCTGCAGCACACATGCCGAAGGTATTGCCAGGATCTTGTGGGT  
CTCGTTGTAGTAGCAGTAGCGAATGTTTGTGGCTGCTATGAAGAGTTCAA  
AGGGGTGCTCCTGCTTTATGTTCAAGTGTCCATTTCTTTTCTTCTGC  
AGCTGTCGCATTTCTTTCTTTCGGTGACTGCTAAACCCCAACTTTTTTT  
TATACCAACCCAAACACTTGAAGGGCGGACCCTTTACAAAGTGGCTTTTG  
GAATAACCCCGGGAAGGAAAAATTTTTTCCCCCGGGGTCTTTTTCTTT



GAACCCCCCAATTTCCACAAAAGAGGGAGATTTTTTGCCGGTAACTTA  
CTCCATTTTTTAATGGGAAAATCCGGTTTTGGTTTTTCCCCTTTTTTCCG  
GGGGCAGGGGAAAAAATTTTTTTGGCCCCAGCCCCGGGGTCCN

>Sequence 246

CGTCTCGTTACACCTCGTCGACTTGCGTTCTGTATGTTACTTATTATTAT  
ATTTGTTACTATGTTTATAACTATCTATCTTTCAGTCCATCATAATAATT  
TGCTTTACCATGTGTATAGTAGTTTAGGTAATCTTTTGCTACNNANTCNN  
GCNANTTGGGGTTGTATGTCAGCCTNTCTCGGGTGGCGGTCTGTTGGGATC  
AGCGTAGGTGAGCTGTGGCCTTTTGGGAGGTGCTGCAGCCATAGCTACGT  
GCGTTCGCTACGAGGATTGAGCGTCTCCACCCATCTTCTGCGCGGGACCA  
TCTACATAATGAATCCCAGTATGAAGCAGCAACAAGAAGAAATCAAAGAG  
AATATAAAGAATAGTTCTGTCCCAAGAAGAACTCTGAAGATGATTGAGCC  
TTCTGCATCTGGATCTCTTGTGGAAGAGAAAATGAGCTGTCCGCAGGCT  
TGTCCAAAAGGAAACATCGGAATGACCACTTAACATCTACAACCTCCAGC  
CCTGGGGTTATTGTCCCAAAAAAAAAAAAAAAAAAAAAAGTACCT

>Sequence 247

GCTCTAAGCTATAACGTACTAATATTTGATCTATTATATACATTATCAA  
TCACTAATACACACATCAATATACTTACGTATAATACACTATCTTAGTTC  
TCTAATATAATTATNANTNTANTTGGCGTTTGGCTTCTCCCCGCGGGNGG  
CGGCGGAGGTACTCCCCAGCAAAATATGCTTGGTGGGCTTGTGTTGACTAGA  
TGAGCTGTATAGTAGCCAATCCTGTAGACTTGGACCATTTGTTGTCTG  
AAGAACGGGGATCTGTGCTCGCCTGAGCACTGTATTTATCCCTTAC  
TCAGTCCAGGGACTTCTCCAGTAGCGACAACCTCTGCGGCCGCCGCATC  
TTC

>Sequence 248

TGCCGCGTATATGCANCTTCCCGCGGTGGCGGCCGAGGTACTTNNTTTTT  
TTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTACAGAGA  
CGAGGAATTTAATTAGGGTTGTAACAAATGGTTAATTATAGTAAGAAAAA  
CCAAATTGAATAATTTTCTAACTCACTTGGCAGGGGGGGTCTCGCAGCCA  
TAATGAACATCACATAATGAAGTTACTCCTTCCAGATCTATAAACAGGC  
TCATGTAACCTAAGTACTCAGTAAAAGGGTCCATAATCCAAATTTATA  
TAACAAATGGGGCTTGCTATAAAATCTCTTACATTTTAATACTTACTCTT  
AATAAATCATCTATTCTTCCCTCCTTCTTCTAAGGCAGAAATCTTACT  
GTTTTCTAGGGCAGATATTTTTTCTATTGTGAGGTGCGACTGGGTCTGTC  
TGGGCTGGATGGAGATCTGTTTTTGGGAGCTGCAGGAATGCTCTGTGTG  
CCAGATCCCGTAAATGAGGGACTGTTTTGCTGAGCTGAACAAAAGTGAAG  
CAGG

>Sequence 249

GATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAG  
AAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACGG  
AGTGTGAATAGTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCG  
TGACCTGACACAATGTGTGTCCTTGTCTTATTTGGAGAAGTTCACAAAG  
CGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAAC  
CCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCA  
TCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTA  
AAGCCAAGAAGAAGAAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGT  
GACTGTGAGTACCT

>Sequence 250

GGTNTCGTATGCTTATCGCGGGCGGCCGGAGTGATGCCATCTGCAGTTT  
GTGATCTGCAATGATTCTTCCCTTCGAGGTGAGCCATTATCTTTAATCC  
GGACTTTTTTGTGGAGAACTCCGACATGAGAACTGAGATTTTCACTG  
AGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGTGA  
TTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGG  
CCCAGATCAGGATCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAA  
AAGGATGATATTTGGGTCCCACTGACGGAGGAAGGCATTGCCAGATA  
TACCAACTGATTGAGTATCTACACAAAACCTTGCGAGTAGAGGGTTTGT

Table 2

TAGAGTACCT

&gt;Sequence 251

TTATCTCCACATTGATTTCTCAATAAACATTTTCTTTTCGATCAAGAATT  
ATTCTAGTATAATATATATTTTTTGCTTCCGTTGTTATTTATCACACA  
CAAAAAAATAAATGGGTGTTGTCTCGATAACCTNTCCGCGGNGGCGGCCG  
AGGTACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGC  
GTCTACCCGGGAATCCGGGGTCCCTGACCGA

&gt;Sequence 252

GGGGNACGTTGCTTGATCGCNGGGCGGCCGAGGTACATTTTACTACGCAC  
CCTTACGCATTCTTTTTCTCACCTCTGTGTGTGTGTGTGCGTGCACATGC  
ACACACACAAAATGGGTGAAACAATTCTCACCATACCAAGAGCCACCGCGC  
CCTGCCGAGAATTTGCATTTCTAACAAGTTCCCAGGTGATGCTGACACTG  
CTGGCTCATGGAACCACTGCTGTAGTATTTTCCAAATTATCCTGATTCTA  
AGAACCACCTATGACCTGTGCTGTTTTTCTGTGGTTACTGGCTCATGTC  
ACATAAATCTTTTAGGATTCAAACATGTTTGTGATATTACTCAGTATTT  
ACATCTTGCTTTTACTGCAGCATGATGGAAAAATTAACCACAGGTATATC  
ATAACAAAAAGAACATGAGTTACCATTTTACAAAGTTTACAGATATATTTA  
AATTAGCCTATTTAATCTTTTTTGGGTGGTGTGAAATGGAGTCTCACT  
CTGTCTCTCAGGCTGGAGTACGTGCTGGTTTAATTGTCCAAGGCGGGTCT  
GGACCAGACAACCTTTTGAAGGGCTGGGCCGTGTCTTTGGTGGTTGGAGT  
CGGTCTCCTTTGGCCCTTTTTTGGTGGCCGGAATCGTGGCTGGCTGATT  
AACAGTTCAAAGGAAATTTGGTGGTTAGAACGGC

&gt;Sequence 253

TTTCTTCGCGCCCGTGTCTTTTGCCTTTCAAAATTTTATTTTCTCTGCTT  
ACAGCTTTTTTTTACATAATACATAATTTTATTTTTTCGAATAATTTTC  
TACCCACAAAAAAATTTGANNAGGTTGCTTGTAGCGCNTCTCGNGGNG  
GCGGCCGCCCGGCGCAGGTACTTTTTTTTTTTTTTTTTTCTACCGGTAGC  
CTATTTTACAGATTTATTAATAAACACATAGGTAACGAGTCAGAGCTTTGGC  
TAGGAATGAGTTGGAAGAAGTGAAGGCATAATTCACAGGACATTAC  
AGTTGTGTGCTAGAGACAGAGGAGCAGGAAAGTGTTTTAGAAGCATTT  
GCGGCCGACAATGGAAGGCCCGCTTCATCGAATTCCTGTTTGTGATCC  
ACATCTGCTGGAAGGTGGACAGAGAGGCCAGGATGGAGCCACCGATCCAG  
ACAGAGTATTTGCGCTCCGGAGGGGCAATGATCTTGATCTTCATGGTGCT  
GGGTGCTAGGGCCGGGATCTCCTTCTGCATTGGGCGGCAATGCCAGGGT  
ACCTG

&gt;Sequence 254

TGTATATAGATAGAGCTACCGCGGTGGCGGACGAGGTACTCATGGTTGC  
TGTAATCTGGCCGCCGTTCTGCAGGGTTATGCTTAGCCAGGCTCCTATG  
AGATCTGGCTATTCTGTCTTGTGGATGGTCAGTCCCCGCGTACCTGCCCC  
GG

&gt;Sequence 255

GTNTAATCGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGT  
GTGCAAAATCAGAGGGGGGTGCAAGATCCTGATTTTTTCAGGAGTTCAAGC  
GACAATGGCAGCCCAATACGGCAGTATGAGCTTCAACCCAGCACACCAG  
GGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATTCCTAATTGAGA  
ATTGTGTTAGTGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAG  
CATCCTTGCCCGAAAGTGTTTCTATTCTGGCACTGCAGCAAAATCCATTA  
CCAAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAATTGTC  
GTAGTTGACACACCAGGCATTTTCGACACAAGAGGTGCCCAATGCTGAAA  
CGTCCAAGGAGATTATTCGCTGCATTCTTCTGACCTCCAGGGCCTCATG  
CTCTGTTCTGGGTGGTTCCACGGGGCCGTTACACTGAGGGAGAGCACAAA  
GCCACGANNAGATCTGAAAATGTTTGGG

&gt;Sequence 256

GCCCCAGATTCAATCTGTGGTGACGGTCCGATACGATGAGGGACTACACC  
GCACACCACCACTTCTGTTTAAATGTTTTGAATCTAAACGTTGAGGTGGGG  
CTNCACCATGTTGCCAGACTGGTTTTGAATCCTGAGCTTAAGCAATCC

Table 2

ACCTGCCTCGGCCCTCCCAAAGTGTGGGATCACAGGCGTGAGCCACCGCA  
TCCGGCCTCATGTTCTTTTTCATTAAAGAGAGAAATCAACTATTCAGGAC  
CGGCCCCACCTTTCTCAGGAGTCATTTCTGTTCCGCACAGGCCTGCTG  
AACTGGGTGCTTTATATAGGGAAAGTGGGCCTCATTTTTTGGTCCCTGTC  
CTCAAGCCTTAGGGGCAAAAAAACCTCCAAAATTGAAAAGGGTTTTTTT  
TTTTAAATCGGGAGGGGGGGCCCCCTCTTTGTGTGGCGATTTCGGGGAA  
AAAAAAAAAAAAAAAAAAAAACCCCCCCCCCGCGCGCCCTTAAAAAAA  
AGAAACCCCCCGCGGGGGGGGATTTTTTATATTTTTTTTTTACCCCC

&gt;Sequence 257

GGAGATGATTGAGCTCCCCGCGGTGGCGGCCGAGGTA CTGACTTGCA  
GGCCACAAGACCGGCCCTTGGGAGCGTCGTTGGCTGATGGGAGTAGAAGCC  
ACAGAGAGTCTTCTCTTGGAGGTACAGTCAATTCTGAGGTTTGGGCGTC  
ATAGACTAAACCCAGAAAACAGAACATTGGGAAGTCTTCGGAATATTCTC  
TATCTTCTTCACCAACGAGTAAGACGTTTTTGAATAATGGGACTTTACAA  
AGGCCTTGAAGCCAAATTGGTTGAAAAAAGGCCCTAACTGGTGGTTTAAA  
AGGGTCCTTGGTTATGAAAAAAATGAACAGTGCCCCCTTTCAATTTTTG  
GGGGTTAAAGGGGGGGCCCCAAACATTGGAAACCCCTTCCCAAAGAAAAAT  
TCTCCAAAATTTTCTAAAAGGGGGGGGGTTTCTTCTCTGGTAAAAGAAA  
AAGAGAAAAANTCTCCTTAATATATTGTGTGTTTCTCGCCCCAAAAAAG  
ATACCCCCCTTGTGTGAAAAAAAGAAAAACAGGGGGGGCCCCGGGGGG  
GGGGTGTCAAAAAAACCCCTGTACACCAAAAATTTTTATCTCCTCTGG  
TGGGAAAAACCGGGGGGGCTGATATATAAT

&gt;Sequence 258

TTAGTCGTTTTGAGGCCCGGTGGCGGTGCGGTACACGGGCCACGTGACCG  
ACGCCAACATTGCGGCGCCAGTTGCGTCCACCTGCTTGTCCGCAGAGGT  
TCTCATAGAATTTTCTTCACTCAATCATATCTACTTACACAAGCA  
GTCAAGCAGTCAACAAAGAAGAAATTTCTTTTTTCGGAGACAAAGAGATA  
TTTACACAGTATAGTTTGGCGGTGCGATTTCTCAGCTCATCCGGTT  
CCTAAGCACATAAAGAAGCCAGACTATGTGACGACAGGCATTGTACCTGC  
CCG

&gt;Sequence 259

ATGTTATATTCGTCTAATAGCTACATTGAGTCGAATCGTATTATGTTCTG  
ATCTCTTTTATTTATGTTTATTACATGTATCTATCGTATCTGATTACG  
ATACGATTACGTTTTATCCTATCTCTCNTAATGGTGTATGCCACCGCG  
GTGGCGGCCGCGCGGGAGGC

&gt;Sequence 260

GCTCGTTATGTCGTTACTATCTGTGTCTGCATCGTATCGCATTCTCATCT  
ATTATTATCTATTCTCTTGTATCTG

&gt;Sequence 261

TCTATATATCTATCGTTCTATATATTAATTATTTATCTTTGTA CTGTT  
TATCGAATGACTTTAATATTTCTATCTCTTAACTATACATCTGTTTCT  
CTTTATATATAGGTAGCGCGTG

&gt;Sequence 262

TTACTCCACACTCTACTCATTTTCTTCAATTTCTGTACTCGTTTTA  
ATAGTATTTACTTATTGTTCTATGTTATGTTATCATCATTATATCATATA  
ATATCTGTTTGATTCAACACCCATTANTTTATTTATTTATTATGTTGTAG  
CCGGGGCGGCCGAGGTACCCGATAGAACATGGCATCATCAACCACTGGGA  
CGACATGGAAAAGATCTGGCACCCTCTTTCTACAATGAGCTTCGTGTTG  
CCCCTGAAGAGCATCCCAACCTGCTCACGGAGGCACCCCTGAACCCCAAG  
GCCAACCGGGAGAAAAATGACTCAAATTATGTTTGAGACTTTCAATGTCCC  
AGCCATGTATGTGGCTATCCAGGCGGTGCTGTCTCTATGCCTCTGGAC  
GCACAACTGGCATCGTGCTGGACTCTGGAGATGGTGTACCCACAATGTC  
CCCATCTATTAGGGCTATGCCTTGCCCATGCCATCATGCGTCTGGATCT  
GGCTGGCCGAGATCTCACTGACTACCTCATGAAGATCCTGACTGAGCGTG  
GCTATTCCTTCGTTACTACTGCTGAGCGTGAGATTGGTGGGACATCAAG  
GAAAAACTGTGTTATGTAACCTCTGGACTTTGAAAATGAGATGGCCCCCTGC

Table 2

CGGATCCTCATACTCCCTTGAGAAGAGTTACTAGTTG

>Sequence 263

AGGTACTTTTTTTTTTTTTTTTTTTTGCAGCCGTTTTTCTTACTAGAA  
GCTAGGCGGAAAGAGGTGTTACTCAGATTTCTTGAACCTGAGACGTCAA  
GGTGAGACGCCAGCCAAGGAGAAGGGATGGTCAGGGACCTGCCCCG

>Sequence 264

NGCGTTCGGAGCACTACGCGNGGCGCTGCGGGGAAGACGGGNGACGNGC  
GGATCTTCTTCTTTTTGGGGCAATGNACGTTTAATAATGCGTNCCCCGGC  
CTNNAAGCCTTCGC

>Sequence 265

CCGGGCTACCGGGGGGTGGAACCTCTTCAGCANNGCTNNGGTTCANNG  
AGCTATNANACAANCAACCGGGACCCAGCTTTTCAGAACTGCAGGGTAA  
CAGCCATCATGAGTGAGGTCACCAAGAATTCCTGGAGAAAAATCCTTCCA  
CAGCTGAAATGCCATTTACCTGGAACCTATTCAAGGAAGACTGNGNCTT  
TTTTATCGAGTGATAGAGNGCGCAACCAGGTTGAATTTTAAACACTG  
AGTTCAAAGCTGGCCATGTACCT

>Sequence 266

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCTAGGTATTGC  
TGGGCAAGATCCTTGTTGGAGTCCTCTCTTTTGTGCCCCACTCAGAGG  
ATAGGCAGAGCAGACTGGCAGACACAACAGCACAAGGAATGCAAGATGCA  
TCATTCTCACTGCCCTTACCTTCTTTGTCTACTGGGCTTCTCCCCGCGTA  
CCTGCCCCGGGCGNCGNTCNGAGCCGCGGGCAGGTACTACCTTCACCAA  
CTTTTTCAATTTGGGCATCACAAGACGAGTCTTCTGATGTTCTATAAGCA  
ATATGTTTATATGAAAGTCAGAAAGTTTAGCGAAAATTCGGCCTAAACAGT  
AATAAATGAAAATGGAATGGAAATCAAAGTTCTTAAATAGAACAGAAGGC  
TGGGCACGGGGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCAGATG  
GCCGGATCACGAGGTCAGGAAATCGAGACCATCCTGACTAACACGGTGAA  
ACCCCGTCTCTACTAAAAATACAAAAAAATTTGCGCGGGCGTGAGTCC  
GGCCCCCTGGAGTCCCACTACTCAAGAGGCTTGAGCAAGAAAATGGCGT  
GACCCCGGGAGGAGAGCTTGTAGGAGCCCGGATCCGTCTCCTGCACTCA  
ACCTTGGGCGACTGACAAGGCCTTTGCGCAAAAAAAAAAAT

>Sequence 267

AGGTACTTTACCTCATTTCTACCAATCATTTTAAGAGAATTTGGTTGTA  
TTTCAAAGAACAAAACAACAATTTCTGTCTGCTGTTTATTTAGCGT  
GGTCGCGGCCGAGGTACGGATACAATTCGCTGAGTTAGATTCCAAATTC  
TAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGA  
TGCTTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAG  
GAATGGTTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTTA  
TATATTCTCGTGGGACCTCAAAAGGATGTAAAGCAGGATCATAGTTCTT  
GGAACCTCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAATTGTCCGGATT  
CCGGCTCAGCATCTTACCTTCATCTCGGTTGCTCTTC

>Sequence 268

AGGTACATTTATATGAAAGTCCTCACTTTTCAAGAGCAAGAAAGGAGTAAC  
TAGATGGGCATTTTCTATACCAGCTAAGGCTTTAAACATAACAACGTCTA  
CTGAACTATTTTCTACTTACTTTGACTGAATAAGCCAGTGAGATCGTGAC  
TGCAAGTGGAAGACCTTCTGGCACTGCGACCACTAAAACCTGTAACCTCAA  
TAATGAAGAACTTCACAAAGTATTGTATATAAATGGTGTGCACTCAGCA  
AGCCATGGTCTTTTCTGAACCCAGAAGGTGTCAATGACAAAAATATAATAC  
TAGAATGATAACTGTGATGGCAGGCATCAACAGACCTTTCAGAATAGAAA  
TGAAAGAAAAATGTGATTATTAATTTCCAGACACTAACCTTGACAGAT  
ATAAATTAACACTGTAAAGAGTTATAACTTGCTTGATAGTATTGAATTT  
CTCTGAGAAATTACTTCTTTCTTGACCTTATAACTTGACATTGTCAGAT  
TTAATTTTTTGCTTAAGGCNCGCGCCCGG

>Sequence 269

AGGTACGCGGGATAGTGGAGGCACTGAAAGACCAGCAGAGGCATAAGGTT  
CGGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTTGAACCA

Table 2

ACCTCGAGCGGCCGCCCGGGCAGGTACAGATGCACAGGAGGCCATAGGGT  
TTAGGCAAAGGGGAGCACAAAAGTTGAAGATGAGGCGCTGCCACCAATGC  
TGGGACTTCAGGCCAGGGCAGGAGCTGAGGAAGCCACAAGGGAGGACAT  
TTTCTGCAGTTGCTGAACCAAGTAGCAACCAGGTCTTGAGAAAGCCCTCTC  
TTGTGGAAGAATAACAGCCAGGAGGAAAAGCTTTTCATTCTGCAAAGCTG  
GGGCAGAAAGTTCTTCTTTGAATCCCGCGTACCT

>Sequence 270

NGCGATAGGAGCACTCCGCGNGGCGGCTGCAGAGACGCTTTCGGC

>Sequence 271

GCGCTAGNGCNACCCGCGCNGGCGGCTGGCAGTTGATCGACGACAGCCGG  
GAGGCGNNAGCGAAGGAAGAGACCTTCNGAGNCNGAATAAACTCNAGCGC  
CCCCACGNACCN

>Sequence 272

TTGGAGCTCCACCGCNGGTTGGCGGCCGAAGTCCACAGTTAGCTGCAGC  
AAAACGCAGGCTGCCTCAGGGAAAGGAGCCTGGGTTGATTAACCTTGTTG  
TCAATGTCCCACCCGTCCAGGTAACATTTTGCCCCCTGAGGTCCGGGGT  
AATTTAATGGCTGTGACAAAACCTCCAAAGTTCTGAAAGATCAGAAAT  
GATAGCTACCTGGAGTCCAGCTGTACGGCACTTGCGGTAAAGCCGCTTCC  
CTCAAGAGTAACTACAATCTTCCCATGCACAAGATGATTAATACAGATCT  
TAGCAGAATCTTGAAGGCCAGAGATCCAAAGAGCCCTTCGAGCACCAC  
GCAAGAAGATCCATCGCAGAGTCCCTAAAGAAGAACCCACTGAAAAACTTG  
AGAATCATGTTGAAGCTAAACCCATATGCAAAGACCATGCGCCGGAACAC  
CATCTTTCGCCAGGCCAGGAATCACAAGCTCCGGGTGGATAAGGCAGCTG  
CTGCAGCAGCGGCACTACAAGCCAAATCAGATGAAAAGGCGCGGTTGCA  
GGCAAGAAGCTGTGGTAGGTATAAAGGGAAGAAGGCTGCTTGTGGTGTT  
AACAAGCAAAAGAAGCCTCTGGTGGGAAAAAAGGCAGCAGCTACCAAAAA  
ACCAGCCCCTGAAAAAAGCCTGCAGAGAAAAACCTACTAC

>Sequence 273

GCGGATTAGGAGCTACTACCGCGCGNNGGCGGCTTANANGACCTGTACNG  
GCTTCGAGCCCGCGNCCCAGNCNGGGCGAANGANTTTTNGGCGGGTTGAG  
GCGAGGCACCTCCCTGCCCG

>Sequence 274

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCGATGCTATG  
CGCTCAGTTCTAGTCAGAATAATCTTGCTCATCCTCCAGCTCCCCCTGTT  
CCACCAAGGCAGAATTCAAGCCCTCATCTGCCAAAACCTACCACCAAAGAC  
TTACAAACGGGAGCTTTCGCACCCCCCATGTACGCGGGGGAGGAGCCTG  
AGGAAGAGGGCGGCGACGGTGGTGACTGAGCGGAGCCCGGTGACAGG  
ATGTTGGTGTTGGTATTAGGAGATCTGCACATCCACACCGGTGCAACAG  
TTTGCCAGCTAAATTCANAAAACCTCCTGGTGCCAGGAAAAAATTCAGCACA  
TTCTCTGCACAGGAAACCTTTGCACCAAAGAGAGTTATGACTATCTCAAG  
ACTCTGGCTGGTGATGTTAATATTGTGAGAG

>Sequence 275

ACCTTATTTCCCATTCCTTGGTACACATAACTCTCTTTGAATACGTCAGAA  
CAGGCTCCGCGGAACCGACTACAACGTCATTTTAAAAGGGGAAATAACTG  
TTTTATCCCCCAATAAAGTGGAAGAACTCACGCGAACAACCTGTTATCTC  
AAAATGCCACCCAAAAACCCCATGAACCTTAAAAAAGGCCCCCCCA  
GTTTTCCA

>Sequence 276

AGGTACGTTCTATTCTGCTCCTATTAGGTCTTCTCACCGCACCGGCC  
TCGGTCGATTACGCCTCTCCAGTTCTGCTGGGGACGTTCTAGCCTCGCCC  
CACGCGCTCGATCTTTATGTTATACCGTCACTCCAGTGCCCTAATGGA  
ACTATCCCTCCACTCACTCCCCCTGGTTCTACCCCGGCTCCAAGAGCCTC  
TCCCGGNNNCCACTAATTTATTTCCCAAATTTAGGGCCCCGCCCCATCAG  
NCCCTCCTCCGCGTACCCTGCCTCGG

>Sequence 277

AGGTACGCGNGGAGCGGGCCCTACCGTGTGCGCAGAAAGTGGAGGCGCT

## Table 2

TGCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTGAGCTG  
TTCGGTGTCTCCAGGGCCTGCTGATTTTGGAAATGTGATTATTGGTTGT  
TGCGGCATTGCCCTACTGCGGAGGTGCATTCTTCTTTGTATCTTGACCAA  
CACAGGCCTCTACCCACTTGCTTGAAGCCACCGACAACGATGACATCTAT  
GGGGCTGCCTGGATCGGCATATTTGGGGGCATCTGCCTCTTCTGCCTGTC  
TGTCTAGGCATTGGAAGCCATCATGAAGTTCAGCAGGAAAAATTCTTCT  
GGCGTATTTTCAATTTTGAAGTTTATAGTATTATGCCCTTTGAAAGTGGCAT  
TTTTGTATTACAGGATTCACCCCCACCCAGACTTTTTTCAACTCCAATT  
TTTTCTGAAACAAATGCTAGAAAAGGGACCTGGCCCGGGCGGGTCGGTTC  
TAGAAAATAAGGGGAATCCCCCTGGGCTGGAGGAATTTCAATTTCAAGGCT  
TTTTAATCCCGGCTCACCTTCTGGGGGGTGGCCCGGGTCCCACAATTTT  
TTGTTCTCTTTAAAGGAGGGGGTAAATTGCGCCCGCTTTGCCGAAAAAC  
ATGAGTTATACGGTTGTTTCTCTGTGGGTAAAATTGTGATTTCACTTTTA  
AATGTTTCCGACATGACATATTCAAGCGACGCCCCGGCG

>Sequence 278

CGGTTTGGAGCTCCCCGCGGTGGCGTTCGCCCCGGGCAGCTACTTTTCATCC  
ATAAAGGCCTGCAGCTGTTTCATTGATCCTTGCAGTTCATCCATCACCAA  
CTCCATACAGTCAAAGACTTTGCTCTGGTTCTGTAATATTTTCTGGTAGT  
CAGGTTTTGTATTAAGAACTTCATTCTGAGAAGACCCAAGATATGTCATA  
GGTTCACCTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAA  
TATCTCTTTAGCCTCCTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCT  
GACGTTCTAAAGAAAACTTTGTTATGTATTCTTCATCTCAGCCACAGAT  
GCTTCCAAAGAAAAATCTGATGCTTTTCCATTTGAATCTTCAAAACATTT  
TTGTAGAGTTCCATCAGTTTCCAGTCCGTCTGCANAATGTTTCAATTCTT  
CAGAAAGAGAAGATGCTTTGGCTCTAAAACCTTCAAGACTGAAGCCCTTA  
GTGTCCCTTAGGAAAGGTTCAAGTTTCTGAATAGAGAACTGGAAACTGGG  
AAGCAGGAGACAGCCAAGCCGTTTGGCTTTCTGCTAAATCGACACTGATAG  
ACCGGCTGAGCTCTGTGATGCCCTGGTGAATGGGATGCAGCGACTTCCGC  
CGGTTTCGTTTCTTTCACTTGCTCGCCGCCGGGATTGCCTNCTGGCTTG  
ATACT

>Sequence 279

GCCTTAGGAGCACCACGCGGTGGCCTCCGAGGTACTACTCTGCACTGTTT  
TTTCTTTCTAATAAAACTTTCCCTGTGCAACCTATACTAGTCTTCTGTAA  
ATTCTTCTTACTACCTATGACCCGTGAGCCAACCACTTTCCGATGCCAG  
GGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTTTATACC  
CTTCCACTTGGAAGACTACAGAGGAATCTTGCTCTGCATAGTTCAAACCT  
AAAAAGAGAAGAGTTAATTACCTGAAAAGCAAGAGAAAAACAAGAAGGGGT  
AAATTTTGAACCAAGGGAAATCATTTAAGAAGTGTCTGGTATTTTCAA  
TTTCTGTCAAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAATAAAGGA  
TGGAGACATGCTTATTTTATTTAACTCCCCCAAATTNAAAAAAAAAAAA  
AAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA

>Sequence 280

TGCGGTGACTCCCGCGGTGGCGGCCGGAGTGATGCCATCTGCAGTTTTGT  
GATCTGCAATGATTCTTCCCTTCGAGGTGAGCCATTATCTTTAATCCTG  
ACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCACTGAG  
TTGGTGGTCAGCAATATCAAAAGGCTCATCGATTTACCTGGAAGTGAAGT  
GGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCC  
CAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAA  
GGAGTGATACTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATA  
CCAAGTATTGAGTATCTACAAAAAACTTGCGAGTAGAGGGTTTGTTTA  
GAGTACCT

>Sequence 281

TATGTGGTCACCGGGGTGGCGAGGTACGCGGGGGGAGACATGTGGAGTCC  
CAGCAGAGGCCAACCTGTGTCTTCTCATCTCCCTGGGAAGGGTGCCCCCG  
AAGTGAAGAGATGGCCTGGTGGAAAGCCTGGGAGAATGAATAAACAGAC  
TAGGTTGAATCCATACAATGGAATGGTAGCAGACAATAAAAAGAAAATGA

Table 2

ACTATTGATGCCCCCTACTGCACAGCAGAAGCTCTGAATCGTGTTCTGA  
ATGAAAGAAGTCAGAGATGAAAAGATGGGCCAGGAGTCCAGTTTCTGGAA  
GGCCAAGAATCGAAGTAGCAAGCTGCAGCCGTTTTCCAGACAAGCATGAT  
GTGGGGATGCAGAGAATTCAGGACTGGAGGGGCAAACTCCGATGTGACT  
GAGGCCCCACTGCCAAATGGCGGCATGCTCAGATAGCACCCAAGAATTTG  
GGGAAAAAACTGGTGCTCACAGCTGCCAGTTAAGC

>Sequence 282

ATTATATTTCTACTGCTCAGTATAACGTAAGTGAACGACAGGTGTACCAG  
TCTGCATCTCTTTTCGTGCGCTAATCGTCTCGACGCGTAGGCAACGTATA  
CGAGACTATAGTTTTCTTTCTTATCTACTTCTATTTCTACACTATATATA  
TTTATCCNTTCTTGCGGATCGACTCACCGCGGCTGGCTGGCCCGCAGGAT  
ACCTATGTTCCACTGCTCAGCAGTGCTCGTAGTACGACTCGATGTATGTC  
AGGCACGAGACAGACCCTCTTCCACTTGTATGTTGTATTGCCACTTCCG  
CGCGAGGATATTCTGATAGGATGCGTCTCTCTCAGATCAACACGGTAG  
GCAACGTTCCCTTGGCGTGGTACCTTTTCCACCTTTCCCTTTTCCCATTTCT  
GGCATTAACACCGGTTCCACCCAACCCCTGGCACTTAAGGGCTTGTGAGAC  
TTCAACCCCAACCTTCCAGGCCTCCCCATTGGGGTCTCCTTGCCACCTT  
CATTTGGGTTTCGTGGGATACCAGAGTTGGAACAAGGGGGGCCAGGAATCA  
AAGCCTGTTCCCTTTTCAACCCCCACTCAATTGGGCTCAAGGGGAATGTGT  
GTCCCTCCAGTAAGGGGGTTCCTCCAAAGGCCAACAAGGAAAAAATCTTG  
CAAGCCTTTGAAGCTGGAAGTGGCCACTTGTATGCCTAAGGCTTGGAAAA  
AGCCACATAAAAAGGGGAGGGGGCTAGGAACCAACCGCAAAAAAGGTTTTG  
GATGGCCAAGAAAAAGAGGGAAAGGGGGCTCCAGTGAATATAACCCCTCT  
GGGCGCAATTCTNTTTTCCAATTTTCCCATTGGCCCTTGGCCATTAAA  
TTTCCAGGGGCGAAGGATTTAACCTCTGGGTAAAAGGGTGTGGNGNNNGG  
GGGCCAAGNAACCAACCTTTATTGGACACCCTGGTGAAAAGAGAAGCCC  
TCTATTAAGAAAAATTTCCCCAAAAATTGGGGAAN

>Sequence 283

AGTTGTGACACGATTATATTGAATGTTGTCTTCAACGATATAATTTACTT  
CATCAATATTCTAATAATTACATGCTAATATGATATTTATATAATAAATA  
TAGCTAATGAATAACGTACTTGTCTATTTCTCTAGAGAGCTATCGGGAG  
GCGGTGAGTACAGCATTGGAATGGATCTGTCTTTGGTAAAGATCAGCC  
TATAATTCTTGTGCTGTTGGATATCACCCCATGATGGGTGTCCTGGACG  
GTGTCCTAATGGAAGTCAAGACTGTGTCCTTCCCCTCCTGAAAGAATGC  
ATTGCAACCAATAAAGAAGACGTTGCCCTTCAAAAGACCTGGATGTGGC  
CATTCTTGTGGGCTTCCATGCCAAGAAGGGAAGGCATGGAGAGAAAAGAT  
TTACTGAAAGCAAATGTGAAAATCTTCAAAATCCCAGGGTGCATGCCTTA  
GATAAATACGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTAAATCCAG  
CCCATACCAACTGCCTGACTGCTTCCAAGTCAGCTTCATCCATCCCCAAG  
GAGAACTTTAGTTGCTTGACTTCGTTGGATCACAAACCGAGCTAAAGCTCA  
AATTGCTCTTAAACTTGGTGTGACTGCTAATGAAGTA

>Sequence 284

TCACATCTCATTCTTGTGATTATGTAGATTCTTTACACTTCGTATCATCA  
CTCTTTACATATATTACCGAATGTGATATCAATGTACTACATAGTTCCCTT  
CATATATATATAATTTTTCATAATTTAGAGTGACTCCCGTGGCGGCCGCC  
CGGGCAGGTACGCGGGGGCTCTAAGCTGCAGCAAGAGAACTGTGTGTGA  
GGGGAAGAGGCCTGTTTCGCTGTGCGGTCTCTAGTTCTTGCACGCTCTTT  
AAGAGTCTGCACTGGAGGAACTCCTGCCATTACCAGCCTCCTTTCTTGOC  
AAAGGGAGGGGGAAACATACATTTATTCATGCCAGTCTGTTGCATGCAGG  
CTTTATGGCTTCTACCTTGCAACAAAAATAATTGCACCAACTCCTTAGTG  
CCGATTCCGCCCCAGAGAGACCTGGAGCCACAGAGCTTTTTTGCTTTGC  
ATTGTAGGAGAGGGGACTAAGTGCTAGAGACTATGTCCGCTTTCCTGAGCT  
ACCGAGAGCGCCCGTGAAGTGAATCAACTGCTTCAGAAGATGTACCCTA  
AGGCAACAGGGTTCCTTGGCCGGTTAAACTAGGGGATCCCCCGGCTTG  
CACGAATCTATATCAACTTATCG

>Sequence 285

Table 2

CGTGTTCCGGGTGGCGGCCGAGGTACTAGGTCCCAAATGTTTCAACCGAT  
TTTACCCTATGTTTTCAAGGGTATTATAGAAGGGGAGAGGTATCCTGTAG  
TGATGTCCACGTATCTTGGAGTTATGGGTCGAGTTCTACTACAAAACACT  
AGTTTTTTTCTTCACTTACTAAATGAGATGGCCCATAAATTTAATCAGGA  
GATGGACCAGCTTTTGGGAAATATGATTGAAATGTGGGTTGATCGAATGG  
ACAACATTACCCAGCCTGAAAGAAGAAAACCTTTCAGCTTTGGCTTTGCTC  
TCTCTTCTGCCATCTGATAATAGTGTATCCAAGATAAAATCTGTGGGAT  
TATAAACATTTTAAGTAGAAGGCCTGCATGATGTCATGACGGAAAGATCC  
TGAAACAGGAACCTATAAAGACTGTATGTTGATGGCTCATCTTGAGGAAC  
CAAAAGTAACAGAAGATGAAGAACCACCCACAGAACAAGATAAGAGG

&gt;Sequence 286

GTCCTACACCACTGGATTACTATGAATTATACTTTAATCCTAGATTTTTT  
TGTTTTGATTCTCAATAGATGATGTCTCTGAGTTGATTTGAAATATCAAT  
ATATATGTATTTACTATATGTTGTATATATNANTANTAGAGAGACGCGG  
GTGGCGGCCGAGGTACCCGATAGAACATGGCATCATCACCACCTGGGACG  
ACATGGAAAAGATCTGGCACCCTCTTTCTACAATGAGCTTCGTGTGGC  
CCTGAAGAGCATCCCAACCCTGCTCACGGAGGCACCCCTGAACCCCAAGGC  
CCACCCGGGAGGAAAATGAACTTCAAATTAATGTTTTGAAGAAGCTTTCAA  
ATGTCCCCAGCCCATGGTATGGTGGCCTATCCCAGGCCGTTGCCGTGCC  
TCCTCTAATGGCCTCTGGACCGCACCAAACCTGGCCATCTGTGCTTGGGAC  
CTCTTGGAAGAATGGGTGGTCACCCCAACAAATGGTCCCCCATTCTATTG  
AAGGGGGCTATTGTCCTTTGCTCCCCATGGCCCATTTCAATGGCGGTTCTG  
GGGATCCTGGGGCTGGGCCCGAAGAATCTTCAACTGGAACACNCTTCAT  
GAAAAGATTCCCTTGACTGTAAGCGTGGGCCTATTTCCCTTTGCGATAACT  
AACCTGCTGGAAGCGGTGAAGAATTGGTCCCGGAACATTCAAGGGGAGA  
AAACCTGGGGTTAATGGTAAGCTTCTGGGACTTTTGAAAAAAG

&gt;Sequence 287

GATGTGAGCTCCCCGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGA  
TCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACA  
TTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGA  
AACCTTCAGCATATGGAACCTGAATGATCTTCGTGACCTGACACAATGTG  
TGTCCTTGTTCTTATTGGAGAAGTTCACATAGCGCTCTGGAAGACGGAT  
CACGGGACTGTGCTATGGATCCTCAATGCCAACCCCATGAAGCCCAAGGA  
TGGTTTCAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAA  
TTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGAAAT  
GGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGAGTACCT

&gt;Sequence 288

GTGATGACCCGCGCGCGGCGGAGGTCCCTGTACTCCAGGGCACTGGCGG

&gt;Sequence 289

GAGATGCTATGAGGTGGCGGCCGATGACCGTCATTGTCATGGACAGACTG  
GCTCAGTGAAGACATTTACTTTGATGGGACCAGATAGAATCCGATAATTT  
TTCTCATAACCTGAGAGGAGTTATCCCACGAAGTTTTGAATTTTGT  
CCTTAATTGATCGTGAAAAAGAAAAGGCTGGAGCTGGAAAGAGTTTCCTT  
TGTAAGTGTTCCTTTATTGAAATCTATAACGAGCAGATATATGATCTACT  
GGACTCTGCATCGGCTGGACTGTACTTGGCCCGGNATTTTGAAAAATGGG  
GGACCATTAAAAGCATAAAAGGCATTTGGGGCCTGGGGGACAATGATTTA  
TACTTTCCACGATTTAGCATCTCTAGCCCACCCTTAAATAAACTGTGCGA  
CCTCACTTTTGGACAGCCAAGAGCTTACGATTAGTACCTCCCGGAAACCC  
CTACTATACAGCGCGGTGGGCACCCTAAAGGATGGTATTATTTGACCGAA  
ATTGGGGGGCTGCATCCCATATTGATCTTCAATCTATTCCG

&gt;Sequence 290

ATCTATACAATACATATTATAAATAAATGGTGTATATATTGTTATTAT  
AACATATTATAATTTTTTTGATAATCTAATTGATAGAGTTATCAAAAAT  
ATATATCTTAATTTAATCTATACTATTATATTAAAGATACTCCGGG  
TGGCGGCCGCCCGGGCAGGTACGTCGGGGCTCCGTAGGAAGCCTCATCTC  
CCTAACTAGCTGCTTACACAAAGAACTCCTTGAGAACTGAACCTTGCCA



Table 2

GGGAACTAAAAACCCATTGAAAAGAAGGCTCTGAATCCCTTTTCTTTGCA  
CTATCTCTTGGCCCTGACCTTTAGACGGGATATGATAAACCTATCTGGTG  
TCTTAATGGAAAAATCAACCAATCGAAAAAGGCCATTGGGAAAAATCTTTT  
AATAGAAAACCTATAATTTCCCCTTTTCTATTTAAACCAGGGAAGGAAA  
TATGTCAAAAAATCCCCCTTTTTTATTACTCCCCCTCTACAATCCAAAAT  
GGATGGGGGAAGATCTCTTTAAACCGTTCTCAAAAAAAGTAGGGTGATC  
AAAAATAAGAAAACCTGTCAATTCTAAAAGGCTCTTTGGTCCCAACCAAAT  
GTCTTTAAAATGATGGAGTAACCTCTCCCTTTGTAGATTATATACTATTT  
TCAGAAAAGATATTTTTTTGTTTCGAAAAAACCCGTCTTAACCCACCCACAAA  
TTGGGGTTTTATATATTGGGGAAATAAACCAAAAAATGGGCTTGGACCTAT  
ATTATAAATTCCGGATTTTCTTTTCTAAAGGGGAAAAAAGCCCCCTCC  
CATGAGGGTGGCACACCCACAATTTTATATACATCCTTGAGAGGGGGAA  
AAAAAAAAAAAAAAAAAGAACTTTTTTTTTTTTATTATTTATTTTTGAGGA  
AGGGGGTGGGCCCCCACCACCTTAATAATTGGTGTCTCCCCCTCAC  
TGTTTAAATCATCTATATATTATAAAT

&gt;Sequence 291

TGAGACTGACTCCGGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTT  
TTTTTTTTTGGGGGAGTTAAATAAAATAAGCATGTCTCCATCCTTATTCC  
TAAACATTTACTTATGACAAATGTAACCACTGACAGAAATTTGAAAAATA  
CCAGACACTTCTTAAATGATTTCCCTTGGGTCAAAATTTACCCCTTCTTG  
TTTTCTCTTGCTTTTCAGGTAATTAACCTCTTCTCTTTTAGTTTGAACCTA  
TGCAGTGCAAGATTCCTCTGTAGTCTTTCCAAGTGGAAGGTATAAAAAA  
AAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCCTGGCATCGGAAA  
GTGGTTGGCTCACGGGTCATAGGGTAGTAAGAAGAAATTTACAGAAGACA  
GTCTAGGTTTCGAAAAAGAAAGTTTTATTTGAAAGAAAGAACCGTGCCAAA  
ATAGTTCTCATTCCAGAATGGGAGAAAGGGCTTCTCATAGATCATTCG

&gt;Sequence 292

TTGATGCTCCGGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTGCTTTGTTTTATCTTTTGGCCTTTTGGTGAAGTTGGTGCTCCTGG  
AGTCACTGGAGTTCTACTTTGAATCCCACTCTGACATCAATCGACTGCCT  
TAATTCCTGGTCCAGCTGCCCCACCCTGACTCTCTCCCGCTC

&gt;Sequence 293

GAAGTGGCTCCCGGTGGCGGCCGCCGGGCAGGACGCGGGGACATTTCGAG  
TGGGGATTAAGAAAGGAAGGCTGCCTTGCTGGAGCTGTGTGGTCTTCTC  
CAAGTGAGAGTCGCAGGCAATAGAACTACTTTGCTTTTGGAGGAAAAGGA  
GGAATTCATTTTTAGCAAACACAAGAAAAGCAGTTTTTTTTTCAGGTGCTG  
ACGGCCACCCACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCA  
CGTTCTTCAAGGCAGAAATAATTGCAGAAAATCTTCAAAGGACCCTATCTG  
CAGATGTTCTGAATACCTCTGAGAATAGAGATTGATTATTCAACCAGGAT  
ACCTAATTCAAGAACTCCAGAAATCAGGAGACGGAGACATTTTGTCAAGTT  
TTGCAACATTGGACCAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTT  
TGGCTGTCTGGGCACAGAATTGCTGGGAAGCCTCTGTTGACTGTCAAA  
TCCCCGAGGTTTCAGAGGACGGAT

&gt;Sequence 294

TGAGAGGCTCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGAGGCACA  
TTCTTTTCTACGTGAAGAGTTTTGTAAACTGAACCTTTGTTTTAGTTCCG  
GCTCCAGCCATCCTCGGGTAGCTTGCCAATAGATGAATCCCACTCGTTTG  
ACCCATGACGCTCCTTCTTTGCATTTCTACCTCTTTCCCCACAGCAGTGC  
ATGTCCACCATAACCACTGAGAGTCTGTGGAATCTAATTTTCTGTTATAC  
TTCTTTCTTACACTCATTTTCTGTCTTTATTATGATAGTCTAACTTTT  
TCTCTCAAAGGTATAGCTGCCTTGCTTTTATGAAAAACACACTTTCCTAT  
TGTGATTTATCAGAGGCCTTTCCATATCTCAGCCACTATGCTATGACAGA  
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ANCAGATGTTTTATAACATGAAATATTCTGCTGCGTTAAGAACAAAATG  
CTGACTTACTTGTG

&gt;Sequence 295

Table 2

TGAGATGACTACCGGGTGGCGGCCGGAAGAGCAACCGAGATGAAGGTGAA  
GATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACT  
TACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGTC  
CCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
TGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATT  
GCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGT  
GATGGTAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGAC  
TCT

&gt;Sequence 296

TGTGACTGGACCGGGTGTGGCGGCCGCGGGCAGGTACGCGGGGCTCCC  
TTGTGAGTAGACTATGCAAAGAAAAAGTGGGCCACCATATCTGGAAACTA  
CAGTCTATGCTTTGAAGCGCAAAAGGGAATAAACATTTAAAGACTCCCC  
GGGGACCTGGAGGATGGACTTTTCCATGGTGGCCGGAGCAGCAGCTTACA  
ATGAATAATCAGAGACTGGTGCTCTTGGAGAAAACTATAGTTGGCAAAT  
CCCATTAAACCACAATGACTTCAAAATTTTAAAAAATAATGAGCGTCAGCT  
GTGTGAAGTCCCTCCAGAATAAGTTTGGCTGTATCTCTACCATGGTCTCTC  
CAGTTCAGGAAGGCAACAGCAAATCTCTGCCAGTGTTAACAAAAATGCTG  
ACTCCTATGAAAGAATTATGAGTGTGGAAAGATGAACTCACCACACACGC  
TGATGAGGCTGTGGAGAATCCGTCCATGAAAGAATTTCTCCTGGGGGAAG  
GGCTTACCTTGGCACTGCTAGAAT

&gt;Sequence 297

TGCGATCTCGCGGGTGTGGCGGCCGCGGGCAGGTACGCGGGGGAGGG  
CTCCGAAGTCTGGTTTGGCGGGAATTGAAACCGCCGCTGAAGCCAACA  
AGAATTTGAGAACTGTAAATACCAAGCCTTGAAGGGACCATGGTGCAGG  
CTGTGAGACATAAGAAGCCAGTCCATTACTCACAGTTTGACCACTCTGAC  
AGTGATGATGATTTTGTCTGCAACTGTCCCTCGGCCGTTCTAGAACT  
ATGGGATTCCTCCCGCCTGAGGGATTCCATTTTAAACCTTTTGGACCCG  
CTACACCCTAGGGGGGGCGCGCCCCCTTTTGGGCCCTTTTGAGG  
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GCGGGAAAAAATTTATCCCCCAAAAAAAAAAACGCCCTTTTTTCCCGG  
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&gt;Sequence 298

ACCACACACTTCCATCTCATTATATCATCTGATTGTAATCAATTATGTGA  
TATTACTATTTATAAATAGTATCGATATACTCTTCTAAATGAATTATGT  
TTTATAGTAATTTAAGTGTTTTATTACATTCTTAAGCGTTGACTCACGG  
GTGGCGGCCGAGGTACTCCCCAGCAAATATTCTTTGTTGGCTTGCTTGAC  
TAGATGAGCTGCTATAGTAGTCAATCCTGTTAGACTTGGACCATTTGTTG  
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&gt;Sequence 299

GTTCCATCCATATCTCTATAATTACTATTTCTCACATTTAACGATTTCT  
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CTAATTTTATATATTATATCGTTAGCTCCGGGTGGCGGCCGAGGTACTTC  
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GTTAACTAGGCTTTAAATGACGCAATTCTCCCTGCGTCATGGATTTAAGG  
TCTTTTAAATCACCTTCGGTTTAAATCTCTTTTAAAGATCGTCTTCAAAT  
TATTTTAAATCACTACAACCTTTTAAACTAACTTTAAGCTGTTTAAAGTCA  
CCTTCATTTTAAATCTAAAGCATTTGCCCTTCTATTGGTATTAATTCGGGG  
CTCTGTAGTCCCTTCTCTCAATTTTCTTTTAAATACATTTTACTCCAT  
GAAGAAGCTTCATCTCAACCTCCGTCATGTTTTAGAAACCTTTTATCTTT  
TCCTTCTCATGCTACTCTTTTAAATCTTCATATTTTCTCTTAAATCTT  
AAGCTATTA

&gt;Sequence 300

GCGATGTCCGGGGCGGCAGGTACTTAAGGTTGACTGGTAATCAGGGTAA  
CTTCTGATACTTATCACACAAGATGGTGCCTCAGCATTTAAATAAATGGA

GGTAGGGGAGGGCGTGGTGGTAACATACTTTTAAACCAGCGATTGCACAG  
CAAACCACAATGCAAGTATTTCTGACTCCCAAGATTGCCGTTTCCTAAAG  
AGCAATTCTTCTGCAGGCAACAGCAAACCTACCTTTCCTTGCTAACTGCT  
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TTGCAGGAATAATTTCAAGTTTTTCTAAAAACCTTGGATTAAACAGGTGGA  
TTACTTATTGCTATGCAGGGTACCTGGCCGGGGGGGCTGTTTCGACACCTG  
GCTAATGGTCTTGACATGGAACCGGGCCTTAAATTTGGCATT

>Sequence 301

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TGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCACTG  
AGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTACCTGGAACCTGAG  
TTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGG  
CCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAA  
AAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATA  
TACCAACTGATTGAGTATCTACAAAAAACTTGCAGTAGAGGGTTTGT  
TAGAGTACCT

>Sequence 302

GGGATTGGAGACCAACCGNNGCGGTGGGGACCACGGAACCTGCATGNTCA  
GGACCCACAGGAGCGACCTGAAAGGACCATTATTCGCACAGAGCTGCAA  
ACAACTATACATGATATAATTTAGAAATGTGTGACCTGCCCC

>Sequence 303

GCGGATTTGGAGCNACTCCNGCGNNGCGGCTCGGNNGCTCNTACGGCC  
CCCCANCANGGCGGACCCNNAGAGAAAGGCCCTGNANNGACTACNTTGAA  
TACNGNNGCCCGAACACAAGGAGANCGA

>Sequence 304

TCGCCCGAGCTTTCTCTGTCCATCTTCTCCCGCTGCTGAAATTTCACTT  
GCGGGCGCTGTCACTCAGGACCCCTCCCCCGGTACGCTGGATAGCCT  
CCAGGCCAGAAAGAGAGAGTAGCGCGAGCACAGCTAAGGCCACGGAGCGA  
GACATCTCGGCCGAATGCTGTCAGCTTCAGGAATCCCCCGGTACCTGCC  
CG

>Sequence 305

TTCCCGCAGGTACTCAGGTTTTATCTCTGCACTCCAAGTAGGATGAAAA  
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ACCCAGCAGCTTTATCAAGCAGAATTCCACCTGTATTTCTTAACCTGCCA  
GAGCTGAGTCTCATGGCCACCCTTAGCAGGAGTTGGGGAGGTATTTTTAA  
CAAGGCACATTATCATCTCCCCACCCAAAGTGGAGCTATTGCTAATGAA  
AAAGATACAATGAGATGTTTATGAAATTATCTGTAGCTATTAATGTCAGG  
TTTTTGAAATTTACTGACCTGGAAGAATACTCATAATGCAATGTCAAGTG  
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TTACACACAA

>Sequence 306

GCGATTGGAGCTCCCCGCGGTGGCGGCTCGAGTACGCGGGGAGGCAGCGG  
AAAGCTCAGCCCATGTGAGGTGCCTCCTGCCAATCACAGACTACCCTTCC  
CTGGTCTCGGAGGTTCAAAGAATTGCAGGAGGGTAGAAAAGCACCTGGGT  
CGGGTGACAGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGC  
GCTTGCCCTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACTCAA  
CTGTTTCGTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGT  
TGTTGCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCA  
ACACAGCCTCTACCCACTGGCTTGAAGCCACCGACACGATGACATCTATG  
GGGCTGCCTGGATCGCATATTTGTGGGCATCTGCCTC

>Sequence 307

TGAGCCCGGCCCANATCACCATTATTCCCTTTAGTCACTCAGAGGCT  
TGTTAATGCTTTCTTTGTAAATTAGGCTATATCTGGTATCTGTATAATATC  
TTCAGTTCTTCTTACCAGGGGTCTTACTCTGTTCTGAAACATGGCACCT

Table 2

CAGGCGGCTCCGGCAGCGCTGGACACAGGAACTCCTGGGTCCCCGACTC  
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>Sequence 308

GCGGTTTCGGAGCNAACCNCGCGCGNGGCGGCTGGNNGACCANTACNGG  
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TCANGCNGAGCAGCCCCGAAANCNNNGGAACCGGCCNCNNNGNNGTTCCNN  
GNNGAAGAACGGGCNNANCCCCAGAGAGAGCCAAAGNNACCCCGCCCGC  
NCNAAGAACAAGCGGANCCCCCGGGCCGCGAGGAACNGCGANAACACA  
GGCCCAANCTTTTCCTTTTTTTTTTGTGTTGGGGGGCGCGCGGNACCC  
CAGCNAAAAAGAACCAANAAGCCGAGGGGNNGAAGGGGAGCAGCNCNN  
GGCGNAAANCATTGGNCAANAGCNGCCNCCNGGNGANGAAANNNGCNA  
CNCCGCGNCACAANNCCACACNAACANNACGCAGCCGGGAGCANNAAG  
NGNAGAAGCCGGGGGGCGGGCCCAAGGAGGGGAGCNAACNCACANNNA  
NNNNGCGNG

>Sequence 309

GCGTTTGGAGCACACCGCGGNGGCGTTTCGAGTACTTACGAACATNCNNAN  
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ACAGAAAAAAGAAAAAACAACCAAAAAACAAAAAATTTACAACC  
ACAGCTAATGCAATTTTTCCATTGTTCCCATTTTTTCCAAACCTATTG  
GGNGCAAAGCCATTTTTTCCATGCATCTAAATGATAGATACAGGCTAT  
GAAATTCTTTATTCTATTTGTAGCAGCTTATGCAGGTGCAGCCAAACACA  
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>Sequence 310

GGCGTTANGNGNCNACTNCGCGGNGGCGACTCGANGNCNGCATCTAAGC  
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GCNCCGCGANGCANGAGGCNCNGCACAACCACNACATGCAGAAGAGCCG  
GCCCGCCCCCGGAAAAAGAGNGCGA

>Sequence 311

GCGCTTGGAGCNACANCGNCGGNGGCGGCTGNNGCNGCGTACTCNGAG  
GAAAAGCNCGCACCAGGNGGACGCGGACCGTTAGCAGNGGTTTAGGCACC  
CCAACAAGCCGCGGGGCAAAGGNCNCGNATTT

>Sequence 312

GCGCTCGGAGCTACACCGCGGTGGCGCTGCCGCGCCAGACTCTTGGAGAA  
AGTATAGCAGCAAACAATGCCTATTTTACAGGAAACAGAACATACCC  
AGAAAAATGCCCTGGCAATCATCAATCACAGTTTCCAACATCAATAAA  
GTGTTTAACTCCTCATTTGAAAGATGGTGTCTCGATTGAATATTGAAG  
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GATGTGAGAATATCTGACATAATGGATGTATATGAAATGAACTATCCAC  
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TAGCCCTTGACAGGCTGATAGACTGATTGCTCAGCATCGCTGTCAAAGA  
ACTCAAGC

>Sequence 313

AGCGATTGGAGCTCCCCGCGGTGGCGGCTTCCCGGGCAGGCACCTTAGCA  
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AGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAAATAAATT  
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CCCTCTTGGTATTGTTTACCTAAAAGGAAGAAAGTGTAGAAAAACTGATA  
TAAGTAGAGAGTTTATTTGGGCAAGCATGAGGGTTACAACCCAACTGTA  
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>Sequence 314

GGCGATTGGAGCTCCACCGCGGTGGNCGGTGAGGTACGCGGGGGTCTCT  
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Table 2

ACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTCAGGAA  
TGCATGAATTGATTAATTAATGTGCGAGAGCTGTAGATGGCTTTTCTCAA  
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TGTTCTTCCAGAAAAATCCTCAGGGAGTGCCTTCAGCTTGTGGGAAATCC  
CGAAGATGGCCAAAGACAACCTCAACTGTTTCGTTGCTTCCAGGGCCTGCTG  
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GTGCATCT

>Sequence 315

GCGATTGGAGCTACTCGCGGTGGCGGCCTCCCGGGCAGGACCCCTTAGCAT  
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AGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAAATAAATT  
AATTGTAGACCTGTCTTGTTTTATGAAAAAGCAATGTGATAGTCTTTAAA  
TTTATCTTTCTAAACAAGACACAAGTTTACACATTACCCTTTATAGTAACC  
CCTCTTGGTATTGTTTACCTAAAAGGAAGAAGTGTAAGGAAAACTGATAT  
AAGTAGAGAGTTTATTTGGGCCAAGCATGAGGGTTACAACCCCAACTGTAT  
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>Sequence 316

CCGGGCAGGTACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGG  
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GGCGGGTGCAACCCAGTTTCCACCATGATTAAGGGTCTTACGGAATAAAG  
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CTTCTGATG

>Sequence 317

GCGTCAGGAGCACACCCCGGTGGCGTTCGCCCCGGCAGGTACTCTGCAGA  
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CCAGAAAAATGCCCTGGCAATCATCAAATCACAGTTTCCAACATCAATA  
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AGAATTAATAGAGAACTTCAGTCTGGAATGGTTTTTAAGGATCAGATTT  
GTGATGTGAGAATATCTGACATAATGGATGTATATGAAATGAAACTATCC  
ACATTAGCTTCCAAAGAAAGCAGGCTACAAGATCTTTTGGAAACAAAAAC  
TCTAGCCCTTGACAGGCTGATAGACTGATTGCTCAGCATCGCTGTCAA  
GAACTCAAGCTGAAACAGA

>Sequence 318

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTATTGATGTTGA  
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GATGGTGTGATGAAGGAATCTGTCTTGAAACCAATAGTGGAACTGAAAA  
GATCTCAAAATCTGGACTTGAAAAGAATTCTTGATCTATGAACTTTTCT  
CTGTTATGGTTCATTCTGGGAGCGCTGCTGGTGGTCATTATTATGCATGT  
ATAAAGTCATTAGTGATGAGCAGTGGTACGGGTGGGAATAGCACTACAC  
TGTTTATCTAGCCTTGTTAGAATAAGTCCCAGTGAAGTATATTCTGCAGA  
ATCTTCACTGTTATATA

>Sequence 319

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GAAGGCCCCCTCCAGGAAAAGTACCAGACATCAGCTGCCTCTTCTTCAT  
TTTCAGCCAAAGAAAGGGCACGTTCAAATGAGGTGAGATCATATCATAC  
TGCTGGGCATAGAAGCAACACAGCCCCAGATTGTTAAAAAGCTGGCCGTT  
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GCTGATCAGAAATAGAAGTGGTTGCTTCCAATGCATGCGAT

>Sequence 320

Table 2

CGCGTAGGGGCAACCCGCGGNGGCGGCTGCCAGGCGTNGAACGNGCACCN  
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CCCAGCGAGAGAGAGGNGNAGGAGGCCNGCAGGNACCN  
>Sequence 321  
CGGGCTTGAAAGCNNATNCGCGCNGGCGGCTGANAAGCTCGTCGGNCGCGC  
ACAAGCGGAGNNAACCGAAGAGGGGGCTGAAAGNACGCGTTANCCGGACC  
CACCAGNNNCCNGNCCAGCGCNGCCGTTTCCNAGAGGGGGCACNNCC  
CGCAAAGGCNGGAGNGCAGCGGCACAANCCGGCNCACGGCAGCCNNNGA  
NANNCNGGNCNCAGGNGACCAGCACCTTTTCTTTTTTACCTAGAAGNNG  
CCAAGCCACCCGNAACAAAGCANACAAACCGAAACGGGCGGGGGGAAGG  
ANCCAGATGNNANGCCAGGAAANGGGANGAAGACCAAACGNGCCANGN  
NNCAGAACNAGAGAAGACCCNGGGAAAGAAGAACCGAAGANANNANACA  
GANACCAGANAAAGCCCAANNACAAAGAAAGCANA  
>Sequence 322  
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>Sequence 323  
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CG  
>Sequence 324  
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>Sequence 325  
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ATTCCATCCTATATTATCTATTTATTAATCCATTCACTCTTT  
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CTTCAATCATCTCTC  
>Sequence 326  
TATGATGTGAGCTCCCGTGGTGGCGGCCGCGGGCAGGACTTTTTTTTT  
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Table 2

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CTTCTGTCTTTCTCTTGCTTTTCAGGTAATTAACCTTCTCTTTTTAGTT  
TGAACATATGCAGTGCAAGATTCCTCTGTAGTCTTTCCAAGTGGAAGGGTA  
TAAAAAAAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCTGGCA  
TCGGAAAGTGGTTGGCTCACGGGTCATTAGGGTAGTAAGAAGAATTTGTA  
GAAGACAGTATTGGTTCTAAAAAGAAAGTTCCTTGGTCGT

>Sequence 327

GCTGCCAGGAATATTTTGATAGGCCAAGTTTGGCCCTTTTTAAAATTGGG  
ATCCCCCGCGGGGGGAATTTTGTATAAGTTTGTGATACCGGCCCC  
CCTTAGGGGGGGGGGCCCGGCCCACTTTTTTTTCTCTTTTTTGGGGG  
TAATATTCCTCTTTGGCCACATAGGGGAAAAAATGTTCTTGGTGGTGTA  
CTTGTTGTTAAATTTCAATTCCTCACCATTCCACACAACCTTCTTCCCG  
GGAGCATTAAGGGGTAAGCCCCGGGTCCCTAATGAGTTTAACTA

>Sequence 328

CCGCGTCCGCTCTAGTGTACAGACACTCCTGGGTTTGGAAATTTGTG  
TTCTCTGTCTCTTGATTTCTGGAAGACGACACCATGACAATTTCAAAG  
AAAATAGAACAAAATGAAGGAAAAAGAGGCTCTGTCTTAGCACATTCCTG  
TGACCAGCCTGCTGTCTGTGGCGTGCCCTCTGGCCCCGGCCTTGGCACAT  
GTTCTGTTTTGTGGTTGTTGCCTGGACAGGCAACTCTGCAGGGCTGCTTC  
TCTACGCATCCCTTTGCCTGCCTGCCTGTGCCAGGGGTTGTCAAGGGCTT  
TTGGGTCAGAGTGGGCAACCCCTTTCTCCAAGGCTCCCTGCAACAGCTGGC  
CTGTCCCTGGTGGGGCTGACAGCTTTCTTCTTACCCTGCCAGGCTGGCCA  
AGCCCCAGAGGTGACCTATGAGGCAGAAGAGGGCTTCTTGGGGCCGTGGC  
TACTACTAGCTTGGATGGGCCCCTGTTGGAGCCCAGATCCTTGGTACCT  
TCACTGGGTG

>Sequence 329

AAACTATACTCCTAGTACTATTCATTTCACTATTATTGTGTAATTATATT  
AATTCAGTTAACTTTACTCTCTAAATACTTCTATAAAATACTATCTTCTAT  
TCATATTCATAATTTTATTCTATTATTTATAATAATTTTATTATATAAA  
TTTTTCGTTCTCGTTGCGCCGAGATACCTTTACAGGATGGCATTTAATAC  
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CACTAAGCTCAGTTAAGGAGCCATCAGCAACACTGAAGAGATCAGTAGTA  
AGAATTCCATTTTCCCTCATCAGTGAAGACACCACAAATTGAAACTCAGA  
ACTATATTTCTAAGCCTGCATTTTCACTGATGCATAATTTTCTTATTAAT  
ATTAAGAGACAGTTTTTCTATGGCATCTCCAAAACATGCATGACATCACTA  
GTCTTACTTTTGCTTAAATTTATGAGAAGGTATTCTTCATTTTTAATTGC  
TTTTGGGATTACTCCACATCTTTTGTTTAATTTCTTGACTAATCAGATTT  
TTAATAGAGTGAAGTTAAATTGTGGGTCATAAAAAGCATTGGATTGACAT  
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AACTATATTTATAAGCAGGCATGGATTTCTG

>Sequence 330

GATGATGACTACCGCGGTGGCGGCCGAGGTACGCGGGGATAGTTCACTC  
ACTTTCAAAGCCAGCTGAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTT  
CAGTGTGCTTCTGACTTTTACGGACTTGGCTTGTTAGAAGGCTGAAAGAT  
CGAGCGGCCCGCCGGCAGGTACTTTTTTTTTTTTTTTTTTTGGCTTTC  
TTTGCTCCTTTCTTATGATCAGCCACATTTCTTCGACCTCCTTCTCCTTC  
ATCCTCAGAATCTGAGAATTCTTCATCACAAGCTATCCGCTTGCTGATG  
CTCGAATAGAAATCTCTTGTCTGGATCTTCTCCATCTTCATCTCCACTG  
TCTTCATGAACAGCATCTTCTGGAATAGCCTGCATCTGGACACCAGGTGC  
ATGAGGTAACATGCGCAAATTTTCAAACAAACGCTGTTTTATCTTTTCCA  
TATATTTGGAGTGTCTGGTTTGTTCATGTTTGAAGGACTAATATGCAGTT  
TGAAGTCTGGT

>Sequence 331

TCTGATGTGAGCTCACCGGGTGGCGGCCGGGTACTAGCAGTTGCCATGAA  
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GTGCTTCAAAGAATGGATGGCTCACTGGAATGCCGTCTTTGACCTGGCCT

## Table 2

GGGTTCTGGTGAACCTAACTTGTACAGCAGCAGGTGATCAAACAGCC  
AAATTTTGGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGTCA  
TCAATGCAGCCTCAAGTCAGTTGCCTTTTCTAAGTTTGAGAAAGCTGTAT  
TCTGTACCTGCCCC

>Sequence 332

TGATGGAGCTACCGCGGTGGCGGCCGCCGGGCAGGTACCATCTGACTTG  
GCAATGTAAGACACACACGTTAGTGTGGGGCACAAACGTGGAATATTAGG  
AGAGAGCTGGTTCCAGCACCAAATCCAGAGTCACTCGGGGAAGGAGGTAT  
GGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAGTAGAACATGG  
TACCT

>Sequence 333

TTATATGATCACCGGGTGGCGGCCGCTCGGGCAGGTACGCGGGGACTCTG  
AACGTGCTAAAATGGGAAGGAGGCGGTGTTTGCTGATCTGTTAAATTCT  
TAGTGAAGTTTCTTGAATTCAGTGGCTGCTGTTGTTGAGTTTGGTTT  
GGAGCAAAACTGAGGTAGTCCTAACATTTCTGGGACTGAATCCAGGCNNG  
AAAAAAAAAAAAAAAAAAAAAGGTACCT

>Sequence 334

GATGTGATCTCCCCGCGGTGGCGGCCGAGTTTGATTCTTGCAAGTCCTGA  
GCGATGGAGCCCGGGGGTGCCTGGTTATTGTCCGCTTCTCTCTCAGATG  
CTTGGCTTGTTCCTCAAGAGAACCTTTTCGATATTCAATTGCTCCATCGA  
TTGGATCCAGTCCTTGTTCAGAAAATTGTTTCAAGGCACCTTAAGGCTGCC  
TGAAAGCCTTGAATCCTTGCTAAATATTCCAGTTGTTTGAAGGTTGTAC  
CT

>Sequence 335

TTGCTGGATTGAGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACTTGAC  
TGCTAACAACTTTCAAATTTCTTACTTACTCCCTCTTCTTCAGCTTCAC  
ATCTGGGAAAACCTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAG  
AGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAACCTCCCCA  
ACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCT  
GCTTTCTCAAACCATGTTTGGACCTGCTTGGAAAGCTCCCTCTGCTCTCCC  
TAGAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGG  
TGTGTGTGTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGGGGGGG  
GGTACCT

>Sequence 336

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CAGGAGGTTACGCCAGAGGAACCGACTTTTAAGGGATCACAGAGCTCACA  
CCAAAGACCAGGGGAACAGTCAGAAGCCTGGCTTGCTCCTCAGGCTCCCA  
GGAACCTGCCTCAAAACACAGGTCTCCACGACCAGGAGACAGGTGCTGTG  
GTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGACAACAGAGCTGT  
ATCCCTCTGTACGAAGAATGGATGTGCCCAGGCCCTGCACAAAGGGCCC  
TCTACAGGGGTGCCACCCAGAGGAAGGACAGTCAAGTCTCGCTGGCAACA  
AGGTGTGCCCTGGGGCTATGAAGAGACCAAGACGCTCCTGGCTATTCTTA  
GTAGTTCTCAATTTTATGGGAACTCCAGACCTGTCAGCAGAACAGCCAG  
AACTACAGGGCCATGGCGGAAGGACTCTGGAGAAGGGTTTTCG

>Sequence 337

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GGATCCATACAACTACTCCGCTGGTGGAACTTGAGAAGAGCCACGTGCT  
GGAGCCATTGTCCAGCCTTGGCCTGGAGGAGCAGTGTCTGGCTTTGTCCC  
TAGATTGGTCCACTGGGAAAACCTGGAAGGGCCGGGACCAGCCCTTGAAG  
ATCATTAGCAGTGACTCCACAGGGCAGCTCCACCTCCTGATGGTGAATGA  
GACGAGGCCAGGCTGCAGAAAGTGGCCTCATGGCAGGCACATCAATTG  
AGGCCTGGATTGCCGCTTTCAATTACTGGCATCCAGAAATTGTGTATTCA  
GGGGGCGAGATGGCCTTCTGAGGGGCTGGGACACCAGGGTACCTGCCCC

>Sequence 338



Table 2

GGAGACGCTCGATTTCGGCGGCCGATGACGTGACCTCTCTGGGAAGAAGTT  
ATTCTGCAGGCACACATTAGACCCAGNGATGACAACAACNGCACATCAAA  
AGGCGGGGGGAAGATGACAGACGGTGCCCGCCCAGGGCGGAAGAGACCCA  
CCTGGGTGCCTGGGCCCCGACGACAAGGGGGACCTGCCCGGGCGGACGCAC  
GAGAACTAGAGGACCCCCCGGCTGAAGGAATGCGAAATCACGCCAAGCG  
AAACCGGCAACCCCGAGGGGGGGCCCCGGGACCCAGGGGTGATCCCTATA  
AAGAGGGGGAAACGCACGCTAGGGGCGAAACACGGGCAAAGGACGGCTCC  
CCGGGCGAAAAAAGGGGAACCCGCACACAAAAACCACAACAACATACCGG  
AACCCGGGAGCCAAAAAGGGGAAAAAACCCGGGGGGTGCCAAAGGAAAGG  
AGGCCAACCTCACAATAAACTGGCCCTTGCCCCCACAGGCCCGGGTTA  
TCAAAGGGAAAAACCCCGGCCGTGGCCACCCTGGCACAAAGGAAACCG  
GGCAAAGACCGG

>Sequence 339

GATGATTGACTCCCCGCGGTGGCGGCACCTTCTTTTGTTTTTTTTTTTT  
TTAATGCTGAAGATTTAGATTTATTTGAAAACACTTAGTCTAATTTATAT  
TAGTGCAGAAAAATCACATTCAATAAACCAATTGTAGAAGAGACAGAT  
AAGTGTGTTTGTACATTTTACACAAATATAATTTGATATTTAATTAAG  
GGATGATGAATCACATTCCATGTAAATAATGATTTATCTCTCAGTAATA  
GAAGGATTCTCTTTTGGGTATTGAGGGGCTTTTGGGGTTATTTTCAATA  
CAGTGGCCGGTTTAAAAATATAAGGGAATTTTTTTTTTTAAGAACCTTT  
TCCCTTTCCAATTTTGGGCAATTTCCCGGAAAAAATTTTTCCC  
GGGGATAAACCCCCCCCCAGGTGGAAAAAACCCCTTTTGACAAAAAA  
TTTTTTGGGGGGGTGTTTTATTTTGAAAAATTTTTTTCTCAGGAAAA  
AACCCCTTTAAGAGGGGGGGGGGGGGGGTTTTTTTGTTTTAAAAAAG  
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>Sequence 340

CCGGGCAGGTACGCGNGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGA  
GGCGCTTGCCTTACGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAAC  
CAACTGTTTCGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATT  
GGTTGTTGCGGCATTGCCTGATGGGAGTGTATCTTTTTTGTATCTGACCA  
ACACAGCCTCTTACCACTTGTGGNGCCAACGACCACGATGACATCTAAT  
GGGCTGCCTGGAACGGCATAATTGTTGGCAATTGGCTTTTCTGGCTGGCT  
GGTCTAAGCAATGGAAGCCTTATTGAGGTCCACAAGGAAATTTTCTGGGC  
GATTTCAATTCGGAGGTTATAGGTTAAGCCTTTTGAAGAGGCATTTTGGAT  
TACAAGAAGCAACACAAACGAGACTTTTTTACACACCCAACCTCTTTCTT  
TAACACAATACTATAGAAGGGACCCCTTGGGCGCTCTAAAAACATAAAGGG  
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CGCCGAACCTCAAAGGGGGGGGGGGCGCGGACCCACATTTTGTGTC  
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GGGCGAACCTTAACACTATATTTGGGNGCGCCTAACCGCGCTTTTTTAAA  
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GC

>Sequence 341

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ACTCTTGCTTAAAACTTTTCTCACCACACCCACCTTCCACATGCATGA  
TATCCAAGGTGACAGACCTGGATTAGAATCACTCTAAGCTTTATGCAGT  
GCGTATTGTATTTTCTGCATAAGAAAGGGCTGCCTCTAGAACACAGTAAG  
TGATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGTATAGTA  
TACCAACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGTAAATGT  
TCGGTTTCTCACTGTTATCTTCCTTTCCTATAATTAATTTAATCT  
ACAAATTGACATAGGGCTAAAAGCTTCAATATTTTACAAAATATTAATTA  
ATGTAATTGTTCCCAATTATTAGAACTTTTTTCCATTTTCAAAATGTT

Table 2

TGCCAACTTCACACAAGTGTGTAAAAATAGGGCTCTGGATTTTCAAAAGC  
ACATACATGAATAATTTATTAGCTATTCAGGCAAGCTAAGTACCT

>Sequence 342

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CATCTGCTTTACAAATGGTGTAGCTACATGTGACACAGCATCTTTAGC  
CAGTTTTCTTTTGGAAAGTTCATCTGATGTCTGGAAGTGAAGTACAC  
ATTTGCCTGCTCTGTTGGTGGCCTCACAAGCAAGGCAAAAGCATTATGGC  
AATCTAGGGTTCAGATAAACCATAAACATTAAAGTGTCACTCCTTGGAAA  
ATGACAGATGTATGCAAGTTTAGTTCCTCAGAGCAATGAAATTTCAATG  
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AGAACATCACCATATTAAGTTGAAGTACCTGCCCCG

>Sequence 343

CCGGGCAGGTACATCAGAGATGCTCACACATTCTTTGAGTAGTTAAAAA  
CTCATTTTAACCACTTTTATTCTTTGTATTCAAACCAATCACTGGCAAT  
AGCTCTAAGTAGGTCATCAACTCTCCTCCATGTCTTCTTTCTAATTCTGC  
CACAGACTCACTTCTTCCGTAAATTAATGGAAGGAAATGAGTGTCTGAGT  
TCTTAGAATCTCAAAGGCATGAGGATAAAGCTTTCCTGGAGATAATATA  
AGTGGTGGCAGGAAGATTTGGGAGCCAGATGATACTCTTTTCTCTTAGA  
GAAACTCTGTGGAAGCTCTGCCTATACTGTGGGAAATAAATTCTAGACGC  
TGGCTTCTTCTGTAGTAAACATGTGGGCCCTTTAAATGTTGAACCAAA  
ATGTGCTTCAAATATAGTTTAGTTATAAAACATTTATGGGGGAGTATGTA  
TGTGCCAACTACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGT  
GTTGCTTAGAATCTAGTAGTAGTAAGTAATAATTACTAACATATGCATT  
ACTATATAGGCAATACTAGGGTAAATATTTTACATAGATTACCTTATTTA  
GTAGCTCTTAGCTGCTAAAAAAGATTAAGATGTCCAGTCTAG  
AGTCTCATAATTGTATGGTAAACACTAAAAATGGTGGTATGGATCAGTTGC  
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CCCACAGCAGAGGAAGTACAACAGGCAGGCCT

>Sequence 344

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CATGTCTCCATTCTTTATTCCTAAACATTTACTTATGACAAATGTAACAA  
CTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGG  
TTCAAAATTTACCCCTTCTTGTCTTCTTGTCTTTTTCAGGTAATTAATC  
TTCTCTTTTAGTTTGAACATGCAAGTGCAGATTCTCTGTAGTCTTTC  
CAAGTGGAAAGGTATAAAAAAACAACCTTTATATTATGCCAGGTGAGGT  
GTCAGAACCTTGGCATCGGAAAGTGGTGGCTCACGGGTCATAGGGTAGT  
AAGAAGAATTTACAGAAGACAGTATAGGTTTCGAAAA

>Sequence 345

AGGTACACTGCGCGGGGGCAGAAAAAGCTGCAAGGAACAGAACCAGCAAT  
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CAGTCTCTTATGCTGTGGCTCTTCTCAAGGATGTCTCAAGGGCTCCGGTG  
GTGCTCTCCTGCTCTATCCGCTGCTGTGGCAAAATCCTCTAAAAACAGCGT  
TTTGCACAGCAGAGAGCAAAGTCCGCTTGTATTCCACCCGATACGTGAG  
CTCAGTTTGGCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCT  
GAGGCCTTGTAAGTACCTGTGGCAGAGAGCTCCCTGGGTCCAGCATCT  
GTTGCCCTCACCTTGACACATGCGGACCCTCCCCAGGCT

>Sequence 346

GGGTACAAGAGATAGAAAGACCAGTCTTGTGAAAGACAAGTCTGAATG  
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CGGATGGATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCA  
TTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACCCATTCC  
CTTGATGTCTACAATATCACTTTCTTATAGATTTCGCATATATGTGGCCA  
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CCTCTCCTCTTCCCTTTGTGTTCGTCATTTTGGCGAATTACTGGAAGAT

Table 2

G

&gt;Sequence 347

CCGGGCAGGTACCACGCCCAGCTAATTTTTTTATGTTTGTAGTAGAGACG  
AGTTTCACCATGTTGGTCAGGATGGTCTCAAACCTCCTGACCTCAGGTGAT  
CTGCCTGCTTCGGCCTCCCAAAGTGCTGAGATTAGAGGCATGAGCCACCA  
TACCTGGCTCTTTTGCTTCATCCATCCCTTAATTTCTTTGCTGGAGCATT  
TTAAAGCAAATATCAGACATACCCTTTCACGCCTCACACTTCAACATGCG  
GCTTGTGGAAATTCGTGCTCCACTCCAGCAACTGCTTCAATCGGAGTTC  
CATCTCCGCGCAGTATGCCCTAACGCAGCGTTATCTTCAGAGCTACTA  
CCCAGTTTCCGAAACTTTTCGAGGGAGCGCTTTGGCACCACCTTGAACGG  
GGAACGGGTGCGTAAACCAAACCTTGAACGCCAGCCCCCGCGTACCTT  
GGCCCGTTT

&gt;Sequence 348

AACGATGACTACCGCGGTGGCGGCCCGCCCGGCAGGTACTTGACTGCTA  
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GAAACTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAGAGGGAA  
GCTCAATCCATGCAAGCCCCAGATAATATATGAGAACCTCCCCAACCTTA  
CCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCTGCTTTC  
TCAAACCATGTTTGGACCTGCTTGGAAAGCTCCCTCTGCTCTCCCTAGAAA  
GCTTCATTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGT  
GTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGGGTGGGGGTACC  
T

&gt;Sequence 349

GAGTCGACTACCGCGGTGGCGGCCCGGAAGGAGGAGAGGTGCTGTGCTGT  
GTATGAAGAGGCAGTGAAGACTCTGCCAACAGAGGCCATGTGGAAGTGTT  
ACATCACCTTTTGCTTGGAAAGATTTACTAAGAAGTCAAATAGTGGGTTT  
CTTAGAGGGAAGAGGTTGGAAAAAACCATGACTGTATTCAGGAAGGCACA  
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TGCTGTGTTATAACTTCCTGAGGGAAGCTCTGGAAGTGGCAGTAGCTGGA  
ACTGAATTGTTTAGAGACTCTGGGACAATGTGGCAGCTGAAGCTGCAGGT  
GCTGATCGAGTCAAAGAGCCCTGACATAGCCATGCTTTTGAAGAAGCCT  
TTGTGCACCTGAAACCCAGGTTTGTCTGCCATTGTGGATTTCCTGGGCA  
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AGAAAGCTCTTTTACTGTATAAGTGC

&gt;Sequence 350

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CAGAGTTTCTGGTTCACGTGGATGTGAGGATCCTTTACTCCAGATCGCC  
AGCCAGTTTTTGTTTTTTTTCTGCGTTGCTGAGAGTCTGGGTTTATTCA  
TCACACCAGGTGGATCTTAATTCATATCCCTGAGGCCACTGCAATGAGG  
CAGAGGAGTGTGCTCCCTCATGAGAAAGGACTGGAGACCGCCCCCAGAAG  
AGAACGTATCCATGTACCT

&gt;Sequence 351

GTAGATGGTTGACTACCGCGGTGGCGGCCCGCCCGTGCTGGTCTTATTA  
TTGCCCGTTGTTTCTGGATGTGAATGGATTACAATGTATTTTTTTAGGGA  
AATCCTATTATTATCAATGTGACTCCACGGGGGAGTCCATGGTGATGATG  
ATGAGGAGGAGGATGATGATGATGAGACACCTCTAAACTTGAACAAGTT  
TAAGACTTTATGAGAGAAGAAAAAAATCACCAACAAGAATTGTTTGAGG  
AAAAATCATAACTATCCTGTGTTCATTTTTTTTTTTATAAACAATAAGAA  
AAAGTTGTTGGATTTTTTTTAAATGATTTCTTTTTTGGGGGAGGGAATTT  
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&gt;Sequence 352

TGATGAATCGACTCCACCGCGGTGGCGGCCCGCCCGGCAGGTTGGTAACA  
ACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAG  
TGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCAG

Table 2

GGAAGCAGTGGTAACAACGCAGAGTACCCGGGGAAAAAAGGCAAAATAGAA  
TGAGAACCATATTATGTACCT

>Sequence 353

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TCCTGGCCCCAAATCTCCTTTTCCCTTACTTTGGGCATTAACTGCTGTTGA  
GGTCTCACAGCCTGATGGTCATTATCCCTGAATGGCATAAATCAACAGGC  
TGTATGAGCATTGTGTGAGATTCTACATGAGGGAGAGCATTTCAAACCCA  
TGACAGATGAGAGAAGTTAGTACACTCTCACTGAAGTGGGGATGTTTGAC  
TTAAAATGATGGACAATAAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAG  
GCTACGAGAGGCCATGAGCTCCTCATCTCTTCTCTGTTCTGAGCTCTCTG  
ATCCACCGCACTTGGGGCAGGGGGTGCAATTCTCTGTGCCCTCTCCTGAGTC  
TACTTTCTGCATCATTGGTTCTCCAGCTCACTTCCATAATGTCCTCCTA  
GGCTGCATTGGAATTGTGTGTTGTCTAGACCCATGGCCAACACTGTCATT  
GCCTGTGAGGGAGACCAAGCTTACCACCAAAGGCTTTTGCG

>Sequence 354

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TATATAAATCTTTACGTGTTAATGGAAAGAAAATTAATTCATTCTGTTAC  
TCCATTTTTTTCTCTCCATATTGTATGCCTGAAGTGAGCTGATGAGGGGC  
AGAAAGATCATACAGTTAGGAATGAAGACATCAGAATGTTCCACTAAACA  
GATATTTAACTAGATACTATTATACTACTAAGAATAGCAAGAATGTCTCT  
CAATTCCTGGGAATTTCTCCTAGCTCACACAAATGAAACGCACATCTCCAT  
GAATGCTTTCTAATAAATGCTTCCAGGATAGTATCATAAACAAGTCAAA  
ATTAAGAAAAATCACCTCCATGGCATCCTGGTCATTCTCCATCAGCTCAC  
CTTTCTTCTTATCAGAATCCACAACCTGCTTTTTTGGTTTTTACAACAGTG

>Sequence 355

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AATCTATAAGAAAGGTGATAATGTAGACATCAAGGGAATGGGTACTCCAA  
AGATTACAGTTTACTCACGCCATCCAGCAGAGAATGGAAAGTCAAATTC  
CTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTT  
ACTGAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTGAGACTTGTCTT  
TCAGCAAGGACTGGTCTTTCTATCTCTTTGTACCT

>Sequence 356

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TCTGCGTCGCAGCAGCGAGAGAAGAAATCACTCCATATCCGATGAGAGGA  
AGGGTGGCACAGAGATGGTGTCTACAATTAGAGACATTTCTGACTCCACC  
TTAGCCTAAGCAAACCTTTATGTACTGAGTAACATTTGAAGGTTGTCTTT  
AATGGTGGGGGGTGTTTTTTCCCTTTTAAACTACAGTGCTTGCACAAGAG  
AGGGAGGGACTCAGAAAAGGTTAGGGCAGGTGAGGGAGACAGTAGATGGC  
CTGGGATGACTTGAGTCCATCATACTATTGCTTGGCAGGTGTCTCCCCC  
ATGTTTGATTCAAATTCATGAGTGACCTACCTTTCCCCAGGAATGGGAC  
TGAGAGGGTAGTCTTCCAGCAACTTAGTCTGCACAGGGCTCCCCGTTGAG  
GCTGCCTTTGGTGGTTGTGCTTTGTAAAGTTTCTTTCTGCACTTCGAC  
TTACCTTTGAATCAGAAAGCAAGCCCAGCAGGTGAATGAGGGATGTCTGT  
G

>Sequence 357

GATGCAGTTGAGCTCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCATCTG  
ACTTGGCAAATGTAAGACACACACGTTAGTGTGGGGCACAACGTGGAATA  
TTAGGAGAGAGCTGGTTCCAGCACCAAAATCCAGAGTCACTCGGGGAAGGA  
GGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAGTAGAA  
CATGGTACCACCATTTCTTCCAAGTTCAAAAATTATCTTTGATTCAATTTG  
TTCCCCATTCTCTAATATGTCACCAATTCTGCTGATACATTCTTTGTAA  
TCTCTCATCTATTTAATCTGTTATTCACCTGAGCTACACAAACATTCA

Table 2

TCTGCACAAGGAGTATTCCACGTGCTGAAAAGACAGAGGATTAAGCCCTC  
CTTGTGGAGGCATTACAGTCTGGTTTTAATACACAAACCAACAATTATA  
ATACACAGGGATAAAAAAAGTAGAGGCACTTATTGCATACCTGTACCT  
>Sequence 358  
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CAGTCTGTGGCCACTCCATACTCAGCTGAAAACACTGTTTCAGCCCCCTC  
TCTGGTGACCTCAGCCTTCTCCAGGTGTATCTCTTGATGATCTTGGAGAC  
CAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGACTGTCAAGGCTGTGGTG  
GGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTGTTCTCTGTCC  
CTCTGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCACCAAGGGCACC  
AAGTCAGGTTTGGCAGTTTTTGTCTGCCCTTTGCCCAAGGCTTCAACAAAA  
CCAAGCTGGTCCCTTGTCTGGTTGGGTCCCAACCCAGGGGGGATTTGGG  
GTGGGTGGATAAGAACCCACCACTGTTTTTCCCCCACTTTTTTTATTA  
GGGGAGGGTTTTGGGTTTGGTTGGGTTTTGGGGGGGAGAAAAAAAATC  
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TGGACCTCTTTTTCGGGGTAAAACAT  
>Sequence 359  
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TACTCCGGGAATGGTAGAGAATAAAGATTTGTAGGAAAGGTGCTGAACTG  
CCAAGGAAGGCATTTCTTGTGCCGTGTCTGGAACCGTGTATCCTTACTAC  
ATCACTGAACGACACCAAGCACCCCATGCACTTCTGGGTCCAACCTTGGC  
CCCTGAAGAAAGACACTGAAAATTGGAATGCAAGCTACTTCCGTAGGGGG  
GATTTCTTTTATAATGGTAAGGCCCTTTAAAAAAGGGCTTAACAACAAAA  
AAAATTTTTTCCCCCGGGGGAGGTGTTTTAGGGGGGAAAAAGGGTTTTTCC  
CCCCGGGAAACCCCCCCCCCTTTTTTCTGGGAGGGAAAAATTTTTTGGGTC  
CTGGAAGTTTTCAAAAAATAAAACCCCCCTTTTGTTTTTTAAAAACAAC  
ATAAAAGGGGGTTTTTTTTTTTGAIAAAAAAAAAAAAAAAAAATTTTAGAAC  
CCCCCTTGTGTGGTTTAAAAG  
>Sequence 360  
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TTTTCAAGAGGGTGTGTTGTGAGATATGGTTGACCACTGAAGACACGGGGG  
CTTATGGCAGAGATATTGGCACCAATCTGCCACACTCCTGTGGAACTG  
GTTGAAGCGATTCTCTGAGGGAGCAATGCTGAGGCTTGCCATGACAAATCC  
GCCCTATATTTTAGAGCATCTGGAGGAAATGGCAGAAATCCTTAATCACC  
CCAGAGTCTACGCTTTTCTGCACATACCAGTCCAGTCTGCCTCCGACAGC  
GTACCTGCCCCG  
>Sequence 361  
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TCAGCTTGCGAGCCATTCTCCCGGTACCAGCACAAACCGGGCCAGCCTC  
CTAAACTGCTCATTTACTGGGCGTCTACCCGGGAATCCGGGGTCCCTGAC  
CGA  
>Sequence 362  
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GCCTCACACTCTATAAATGTATGTGCTCTGAATTTAGAGCTTAATAATG  
AATTATGGAACCTTGATAATGATTGGATCAGGCAGACAAACCTGATCAGT  
CCTAATATCAGAAAAGAGACAAAGTAGACATTATGTGCTTCTGAGGTGAG  
GCAGTAGTAAGGAAACAACATCACACATGTAGCAGTCTTGGGAAAAAAAAA  
TGTAACCTGTATCTCGTAATGAGGAAACAATCAGTAAAAAAGTCTAGATT  
GTGGGACATTCCACAACTTGCTGAACCTTTAATAATGTCAAGTGTGAT  
GAAAGACACACCACACACACACTGCACATCATACACAAACACCACCCC  
ACCACCCACCACTCAGACACACACAAAAGGGCACTCTAATCAATTAAG  
GAAACAAAAGAGAATGACAACTACATATAACGTATAATTCTTGATTGGAT  
CCTGGATTTAAAAATAAACAGCTATAAAGGATATTTT

Table 2

## &gt;Sequence 363

GCGATGAGAGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAAAACCAA  
ATAAAAAGTGACATTTGAATTTCTTTTAAAAGGATTTCCGAGCTCACAGT  
CAGCTTGCGAGCCATTCTCCCGCTACCAGCACAAACCGGGCCAGCCTCC  
TAAACTGCTCATTTACTGGGCGTCTACCCGGAATCCGGGGTCCCTGACC  
GA

## &gt;Sequence 364

GTTGCGTGAGCTACCCGGGTGGCGGCCGGGTCAACGCAGAGTCCCGGGAA  
GCAGTGGAACAACGCAGAGTCCCGGAAGCAGTGGAACAACGCAGAGT  
CCCGGAAGCAGTGGAACAACGCAGAGTCCCGGAAGCAGTGGAACA  
CGCAGAGGCTTTTCAGCACAGCCAGGGTGCCCGGGAAGTGAAGTCTCTC  
ACCAGCCCCCTCCACAGGATATAGAAGACTTAGATCACTACGAGATGAAA  
GCAGAGCCCATAGTGGGAAAAAGTTGGAGGATGAAGGAATTGAAAAAA  
AAAAAAAAAAAAAGGTTCTGCCCCG

## &gt;Sequence 365

GATTATGTGAGTGATTGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAGC  
ACTGGGTAAGGCACCTTTTGTGGAGCATTAGACAGTAACCCCTCAAGGAGCT  
AGAGAACCGGATGGGAGACATGAGCGGTAATTAACCTACTTGTTCCTCAG  
AGTTTCTATTTGTTTTGTTTTCTTTTCTGTGACTTATTTTCTATTTTC  
TTTCTCCATGTAATTTTCACTATGGCCCACTAATATAAACACCTGGAA  
ATTACAAGGAAAAAAATTTCTTCTCTAATAACTTTCCAAATTTGTGGAA  
TATTTATTTGTAATAGCAGTTATCAGTTATGCTTATATAGCATTAAAAAT  
TCTCTCCTTTGACTACACACACAACCACAGTGTGGTTCTAATCATGGAG  
ATATCAGTAATTTTTAGTAACTGAATTTTGAGGACATTTCTCTGTTTACG  
ATGTATGCAAACCTGATATGTAATCCGGGGTTCCAAAGTCAATTTTTTCT  
TTTTTTTTGAGATGGAGTCTTACTCTGTAC

## &gt;Sequence 366

TGTGACGTGAGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGCATCC  
TTCAACCCAATCAAGCTGACACTCAGTATTAACCATCACAAGGCGTGAGG  
ACAGATAGCTGCATCCGCAAAATAGAGAACCAAGAAATAGTCCACACCA  
AAGTCAGGATCAAAATGATTCTTGACAAAGCCACCAAGTCAATTCAACTGA  
GAGAAAGAAGCCTTTGCAACAGTTGGTGCTGGAAGTTCTGGATATGCACC  
TGGATAAGTGAACCCCCCTCCGTCACCACACACAAACGTTAATTTGAGAT  
GGATTGCAAAACATAAAAAGCTAAAACCATTAACACTTCTTGAAGGTAACAT  
AGAATATTTTGTAAATGTTATGATAGGCAAAAGTCTCTTAGGACACACAAA  
AAAATTAACCATAAAAGAAGAAAATGGCTGGGTGCAGTGGCTCACACCTT  
TAACACCAGCATGTTGGGAGGCTGATGCAGGAGCGTCCCTGAGCTCAAGA  
GTTTCAGCCCAGACTGGCAACATAT

## &gt;Sequence 367

GTATGATAAGAAATCGACTCCACCGCGGTGGCGGCCGAGGTACATTGAGAT  
TCAAGAGAAAAGTCACAGCAGGTCTGAGCTCCTCCAGCAGGCCTTATGTA  
ATGCTAAGATTTTTGGGGAAGATGAAGTTGAACTGATGAACTGGCTGAAT  
GAAGTGCATGACAACTGAGCAAGCTCTCAGTCCAGGATTACAGCACTGAG  
GGGCTATGGAAGCAGCAGTCTGAACTTCGGGTTCTGCAAGAGGACATCTT  
ACTCAGGAAAAAAAATGTAGATCAGGCTTTACTAAATGGTTTAGAACTAC  
TTAAACAAACCAAGGTGATGAAGTTTTAATAATTCAAGATAAATTGGAA  
GCCATTAAGCAAGGTAAGTCCAGATACGAATTGAGCATACCACAAAAAA  
GTTCTCATTTTGTGTCTCCCATCCCATTTCTCTCACTAACCAAGGCTA  
GGAATTATCTGTGAATGTAGGACCACTGGATTGTCAGTCTTCATCTGACA  
CTGGGGAGAGTTTCTAGGAATGAAAT

## &gt;Sequence 368

GATGTTTATCGACTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCAATGTG  
CCAGGCACCTTACAAGACACAAATATGCTCTTATAGGCTGGGGAAATAAG  
AAAATATGAATGAAGCAACCCAGGTCTTGAGCCAAAGAATTACCTGGGGT  
CCGTTGAGTTCAAATCTGAAAAATTTCTGTCTTTCAAGGTCAGCATCGCCC  
ACAAAC

Table 2

## &gt;Sequence 369

TGTTGTGATCGATCGACTACCGCGGTGGCGGCCGCCGGGCTGGTACGC  
GGGGGTTTCCGGTTTGGGTGTGGCCGCATGGCGTGCTGGGGTGCAGGTGG  
CCGAAGGGGGCGTTACTGTTGCGACTGGCATCCGCATCCGGCAGATGTAG  
ATGGAACCAAGCCAGAAGTTACGCGTCACCCTTGCTCTACAGCCAAACA  
TGCAGGACTCTAGTAACCCGCGAAATGATGGGATAGCGTTGCAAATCCTT  
AAAAGAGTCTTAACGGAGAAGGAAAAATGTTACATTGTCAAAGTCCCAAA  
GCCTTTCAGCCTGAAGCCAGGAACAATTGTTCAAAGTTTCTTTGGAACAT  
CAAGGAAGGAAATCCAGATTTTACTTTAAGTGCAATGGGGAGTCATTAAG  
GATTTTGTGTAGATACAGCAAAAAGACAACAATCTTCAAGCCACAATGGC  
CCTCACCAGAACCCAGCCATGTGGTCAGCCTGATCTCGGACTTCACAGCC  
AGCAGAACTGTGAGAATTAAATCT

## &gt;Sequence 370

CAGCCATTTTATGATAAGGCCACGGTTGGGCCGGTTTAAAACAAGGGGGT  
CCCCGGCGTGGGGAAGATTTTATTAAGCCTTTTTGTACCCGCCGCCTC  
CAGGGGGGGGGGGCGGCCCGCCCCCTTTTGTTCCTTTTTTATAGGGGGGA  
AAATGGCCCCCGGGGGGAAAAAGGGAGAAAAGGTTTTTGTGTGGAAAA  
AGGGTTTCCCCTTCAAATTTTCAAAAAAAGCGGGGGGGG

## &gt;Sequence 371

GGACGCGGAGTTGAGCTCCCCCGGTGGCGGCCGCCGGGCAGGTACGAT  
TATTTTAAACAAGCCTACGTCCCTGACTAACCGAGTGGAAGGTGTGAGTG  
GCACTACAAATTCACAAAAGAACTGTAGCCTCAGATAATCAAAGGAGAGA  
AGGTCAGATGCAATCACTGATGCATGCTAGTAATTCTCAAACCTTCGTTT  
TCAGAAACGATTGGATTTTCAGATAGATTTGCAGTAAGAGAATAACAAGT  
CTTTATTTTTTTCATCCCAACTTCTTTCTTGACATTTTTCTTCTAGCTA  
TATTTAATCTGTTCTCCCCACACACTTGCTAATCTACATTTCAACAATC  
TTTTTCACTTCACTTTGTCTGCANAGAAATCTACCTGGACAGAATAGCA  
TCTTTTTTTTTCCCCCTGACCCTTGGCATTTCCTCTCTCCTCAACTTCTG  
CCTGATCCTAGGATGGACTCTCTCATCCCTCATTCTCTATCATTAGCTCT  
CAGGCTGG

## &gt;Sequence 372

TGGACGATGATTGAGCTCACCGAGCGCGGTGGCGGCCGCCGGGCAGGTA  
CGCGGGGATGTCTCTTGTACGCTGTCTTTCAGAAGACCTGGTGGGGCAAG  
TCCGTGGGCATCATGTTGACCGAGCTGGAGAAAGCCTTGAAGTCTATCAT  
CGACGTCTACCACAAGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAAG  
ACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAG  
TCAACTTCAATGTCGGATGGATGAAACCCAGACACATAGCAATTCAGGAA  
ATTTGACTTTCCATTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTTG  
GAGTACCT

## &gt;Sequence 373

TGAGATGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGAGAAGGAAT  
GGAAAGCCTGGAGAAAGAGGATGAAATGACGGATGAAGCAGTTGGAGACT  
CTGCTGAGAAGCCTCCTTCTACTTTTGCCTCACCTGAGACTGCTCCAGAA  
GTGGAGACCAGCAGAACTCCACCAGCCTGTGAAACCACGAACCTTCAAT  
CAAGAAAAGACCTTTGATCAGGAGAAGACTTCTCGTCTCATTCTGGGGA  
CACATTCAGGATTTCTCCAAAGCAGGTGAAGGTACCTGCCCCG

## &gt;Sequence 374

TGAGATGGTACGGGTGGCGGCCGAGGTACGCGCCAGTCACTAGCAGGTC  
CTTGTGAATCTCCTCACGGAGGCACTTGCAGAGTTAATGGGCAGATGGA  
AGGAGATGGCAAGGACCAATCTGGGGCCGAGCAGGAACAAAAGCAGCAAC  
GCTAACGGAAAAAGGGCCGCGCGGGCTGGTGGGCCAGACAAACCAGACAT  
GGTGCTCCCCCGTACTCCTTATACTTATTAACACAAAATTAATTGTAA  
AATAGCCTCAGGCAGGTCTTCAGGAGGTATCCAGAAGAAGGCATTGTGA  
TCATAGGAGCTGATGGCTCCGCTGGGTACTGCCCTGTAGACTTCCAG  
TGGGACAGGATATGGAGGTGGAAGACAGTGACATGGATGATCCGGACCCT  
TTGTAGGTCTAGGCTAACGGGGGTGTTGTGTCTTAGCTTTAACAAAAA

Table 2

AGGTTAAAAAGTTAAAAAATAATAAAAAANTAAATTNTAGGTACCTG  
GCCCCGGCGCCGCTCTAAACTTGGGGAATCCCCGG

>Sequence 375

GATGCCCCGGGTGGCGGCCGAGGTACCTCAGCTGTTGATCTGTGGAGCC  
TAGGAATCATTTTACTGGAAATGTTCTCAGGAATGAACTGAAACATACA  
GTCAGATCTCAGGAATGGAAGGCAAACAGTTCTGCTATTATTGATCACAT  
ATTTGCCAGTAAAGCAGTGGTGAATGCCGCAATTCAGCCTATCACCTAA  
GAGACCTTATCAAAAGCATGCTTCATGATGATCCAAGCAGAAGAATTCCT  
GCTGAAATGGCATTGTGCAGCCCATTTCTTAGCATTCTTTTGGCCCTCA  
TATTGAAGATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAATG  
TGCTGGATGATGATTATCTTGAGAATGAAGAGGAATATGAAGATTGTTGT  
AGAAGATGTAAAAGAGGGAGTGCAAAAAATATGGACCAGGGGTATCTCTA  
CTTGGTCAAAGGAAAATCCTGGCAGAGGAACAGTCTTTGTTGAGTATGC  
AAAGGCTGGGGATTCAAAGTTGCGCAGAA

>Sequence 376

CACATCTTATAATTATTTATTTTCACTACTTATTATTCTAATTTATACAC  
AATCTTTTCTTATTTATTTATTTCTTTTCTATTTATTTACTTTTTTATACTAC  
TTTTTTTCAATTTTGAGATGGAATCCCCGGCGGCTGCCTTGTCTTTTA  
CTGCCCAGGTACAGGTCTCGAAAAAGCGGGTGGTGCAATGCTCCATGGG  
GATGAGGGGAGCACGCAGTGAGCCAGCTCGGTGTGGGAGAGGTACCTCT  
AAGGTGTTCTTCTACCTAGCCTAGTTTTTTTCTACCAACCTAGTTCACC  
TAGTTTTCTGCCTAACCTCGTTAGATATCACTCTTCGCTGCTTCAAGAAT  
ACTAAAGCAACACTCCTGATATTAACCTACTACTCAGTTTTGTGTGGCAA  
AACAGAGATCACATCCCATTTGTCTTTGTGTCTCTGGCTGTTAGCACAAA  
GTTTAGCACTTAATTCATGCTCTACAATGTTAGTTGAATAGGTGAGTGAC  
AGAATTTGTTATTCTTAAACCATTACTGTTTGTAGTGAGAGGGCAGATG  
TTAAAGTAGCTCATTGACGTTACCCCTTTTTTGAGTAAAGGGAAAAGGA  
GGTAAGATTCCCCAGGTCTTTGTGGGCCAGTAATTTTGGCTTGGAATT

>Sequence 377

TGTATGCGTGAGCTCACCGCGGTGGCGGCCGACGGAGGAGAGGTGCTGT  
GCTGTGTATGAAGAGGCAGTGAAGACTCTGCCAACAGAGGCCATGTGGAA  
GTGTTACATCACCTTTTGTCTGGAAAGATTTACTAAGAAGTCAAATAGTG  
GGTTCCTTAGAGGGAAAGAGGTTGGAAAGAACCATGACTGTATTACAGGAAG  
GCACATGAACTGAAGCTTCTGTGAGAATGCCAATACAAGCAGTTGAGTGT  
TTCGTTGCTGTGTTATAACTTCTGAGGGAAGCTCTGGAAGTGGCAGTAG  
CTGGAACCTGAATTGTTTAGAGACTTTGGTACAATGTGGAAATTGAAGCTG  
AAGGTGTTGATCCGAGTAAAAGGAGCCCTGGCAATACCATGCTTTTTTTG  
AGAAAATTTTTTTGCCCCCTGAAACCCCAAGTTTGTGTGCCATTGTGGGA  
TTTTCTGGGCAGAGTGAGTGAAGGGTCCCAAAAGCCCAGAAGACACTGT  
TG

>Sequence 706

GGTACGAGTAAATTTTTCATTACCTTTAATTAGGCAATGTTTCTTAGATAA  
CCATAAAACTGCAAAAGCAATTTTTAAAAATGATAAATAGGACTTCATCA  
AAAAGTAAACGCTTCAAAAGATACTACTGAGAAAGTCACAGAATAGGAGA  
AAAATCTGATGAGACTTTATGTCTAGAGTAATGAATTCTTGTTAACGAAT  
AACCAACCCCTTTTAAAAATGGGCAAAAGATTTGAATAAACATTTCACT  
ACAGACAATAAACAAATGGCCTTAAGCACAAGAGATGCTCAACATCAGTA  
ATTATTAGGGAAATGCCAATCAAACTACAACGAGATACCCTATATCCAC  
TAGTATGGCTATAATAAAAAAGAGTAACAAACGTTGAGGAGGATATGGAG  
AAACTCGAGCCCTGGTCAGGTGTGGTGGATCACACCTGTAATTCACACAC  
TTTGGGAAGCTGAGGCAGGCAGACTACTTCACTGAACCCAGGAGTTCAAG  
AGTAACCTGGGCAACACCCGCGAAACCCCATTTCTACAAAAAATCAAAAA  
TTAATCACGCTTGGTGGTGGTGGCCGCTATAATCCAACCTTCTTAGGAGG  
CTAAGATGGGAGGATTGGTTGAACCCAGGCAGGTGGAGGGTGGAGTGAAC  
CAAGAAAAAACCGGTGGACCTTTACCCGGGTGACCGAGTGGGACCCTACT  
TCAACAAAAACCGAACTACTGGGGCCCTATAAACTGGCCGTTTCTTAAA



Table 2

CATAATTTACCCCTTGGT

&gt;Sequence 707

GGTACCCATATCCAAGGCTTATTGCAACTTTTAGTCTTGCCCCTGCTACT  
TACACAGTCCAGAATCACTTGGTGAGCATTCCAGTAGGACGGTGGCATT  
TAGGATTCCAGAATATTAACCTATAAACCTGTCATTTGATTCTTGATTATT  
AATGTCTGGATCGCCTGTGGTAGGGGTGTAATCCCAGGAAGGCATTAAAT  
ATATTTGAATTAATGTATATTTTGAGAATAAAAGGCTATTTCTAGAAAAAT  
ATTACACACTTGTCTTATGTTAAATAAAAAATTTGCTATTTATTGAATATC  
CCTTACCCACCCTTCTTCCCAATGAAGATCTTATGCATACCTTCACTGGA  
AGGTTTAAGATGTGACAATCTTAATAGATCTTTGTGAGACCAGCCATTTCT  
TCTGTTTATATTTTGGAAACCGCCAGAGCAAGGGCCATGCCACCTTTCTCA  
TTGTACCTGCCCGGGCGGCCGCTCAAAGGG

&gt;Sequence 708

ACATCCTTTTGCATGCTCAAGAGCCCATTCTTTTCATCATTCGGAAGCAA  
CAGCGGCAGTCCCCTGCCCAAGTTATCCCAGTAGCTGATTGCTATATCAT  
TGCTGGAGTGATCTATCAGGCACCAGACTGGGATCAGTTATAAACTCTA  
GAGTGGTAGTGTCTTACATTTCTTTAAGCACTAAAGAAAACTTTTAATT  
AGCTACCTTGCTTCCAGTAATCAAAGTCTGCTCTGCTTGTGTAAG  
TTGCTATAAAGTATTGACTATTAGAATGTCTTGAACCTTTGGTTACTGTGA  
GCCAAGTCGGTGCTCAAAGTATATTTTCATAGTCTCAATTATATAGTAAT  
TAGGTTCTGAAAAATAGGTTCTGTCTTTGCATATGTAATATTTTGTGAGT  
ATTTACTTTGAAAAGTTTGGTTCGACCTAATGATAAATTTAGAGTTTATTT  
TCCTTTTACAAGCTTACTGCATTGCATGGTATTCACTCAGCTTTTGATGA  
AGCTATGTCTACTGGTTCGATATCATCCTTTCAAAGGGTATTGGTGCCAC  
TTCAAAGATCATGAAGAGCAAGGTAAGTAGAACATCCATACCCTCCTAAA  
CACTTTTGGACCTCTGAAAAATGAGCTTGTTTTTTAGGAAAATGGCTGGGG  
ACTTTCTAAGGGGTTCACTTTTTCATGGATGATGCTTTGTTGAACTGAAA  
TCATGGAATAGAAGTGAATAATACCTTACATAGGACAT

&gt;Sequence 709

GGTACAAGCATGGTCCATACCACTGTTTACTTTTCTAGAAAGTTGTTAGA  
CTAATTTTCAACAAAAATTCTTTATTGTCTTGTTAACAAAAAGAAGCATA  
CTAAAAATTCTCAATAAGGCACAGTGTCTCTAGAAGCTTGAGCATTC AAC  
ATAAACTTCTAATTAACACGAAGTGTGCTCTTATTTCAAGCCATTGCTGT  
GTGGGCTTGGAGCCAGGAGAAGATGCAGAGGAATTTTACAATGAATTACT  
TCCATCAGCTGCAGAAAAATTTCTAGTTTTGGGGAGACAATTACAAACAT  
GTTTTAT

&gt;Sequence 710

ACGCGGGCTAATCCCAGTTATGAGGGCTCTGCCCATGACCTCATCACTTC  
CCAGAGGCCTTACCATCTAATACCAATACATTGGGTTTAGAATTTCAAGCA  
TGAGAATTTGGGGGAGACAGTCAGACTGTAGCGATGATTCTGGAGTATTC  
ATCATTTAAGAGACACTTAAAAATGATCAGAAAGGAGAGGATGAAGGCTA  
GAACTAAGACTTTAGCGTTGAACATGGAAAGGAAGTGATGACTGCAGATA  
TCTCCAGTACC

&gt;Sequence 711

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGATAGCCATATACCAAATAA  
ATGTTCTGTGACTAGGGGTTATGGCACAATGGGTATTGAGACACTAAAAA  
CTCTGCTTCAGGCTTCCATCCTCTTAATTTTAGAATATCTCTGATTTCTT  
AATTTTCTGATTGACATCTTTTGGTAGATTATCGTGTTTTACTTTATGT  
TATTGACTGATCCTTTAGAATGATTTTCTTTTGTCTGGGAAAAAAAAT  
GCATTCTAAATCAGATTCATAATACTTTGATTCACTTCCAAGGATT

&gt;Sequence 712

GGTACTTACAAAAATTTTAAACATTAGGAGGTAATTATAAGTAGATTCTG  
TGATTAGGACTTCATTATGTATCTTTTGCTACATAAACCTTTGTTAGAT  
TAAATGGAAGACACCTGCTAGGTGATACTTTTATAAAACATATGAGTAA  
GTCATATATCTTTGTTAAATTTCTGTATGTTCTTTTGTATAAAGATGG  
AGAGAAAGGATGGAGTGATACTAAGGACCCTAATAACATCTCTGTTCAAA

Table 2

TTAATTACTAAGTGATAGAAGTATTCATATGCCATTAAAGATTTGCCAAT  
TCTATTTG

>Sequence 713

ACTGACACAAGGACTCCAGGCCACACATATCTTCTTGAAAGCCCTTTTCC  
TGTTTGAAAAAAGATCGTTTGTATTTGATAGAGCAAAAGAAGGCCACAA  
AATGAATTGCTTCTTGTGGGCTGTGTTTCAGAACGGCCGGTTTGTGGGC  
GATGCTGACCTTGAAAGACAGAAATTTTCAGATTTGAAACTCAACGGACC  
CCAGGTAATTCTTTGGCTCAAGACCTGGGTTGCTTCATTCATATTTTCTT  
ATTTCCCCAGCCTATAAGAGCATATTTGTGTCTTGTAAGGTGCCTGGC

>Sequence 714

CCCTTAGCGGCCGCCCGGGCAGGTACATATGCACTATTTAGAATATGACA  
TTAATCAACCACTAGAAATTAATAATCAGGTTATAATCCTCAAAATCACCA  
GAGTATAAATTTAAATGAAAAACCCAGACCACAGAACAAAAACAGAAATA  
CCAAAAAATAATCACAATAATTAATAAACAGTATATAAACACAGTGACAG  
AATTAGGACTAAACATATCTGTAAAACAATAAATGTAAGGGTAATCTCAC  
CAATTATGAAAAAGACCTTCAGATCATATTTTAAAACAAATTTAAAAACT  
CAAC

>Sequence 715

GGTACGTGTGCTGGATATGCAGGCTTGTTACATAGAATTGGTGTAATAAT  
TGAAAACCATGAAAAAATAAAACAATAAAGGATCTAGATGCTAATAATGT  
GGTTAGTTAACATGTTGACCATTTCAAAGCAAAATAAGTCTTTGATGTTT  
TATACTATTCATAGCAAGA

>Sequence 716

ACAGTGGTGTGATCTTGGCTCATTGCAACCTCCACCTCCTGGATTCAAGC  
GATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCACCTGCCA  
CCATGCCCCGTGAATTTTTGTATTTTAGTAGAGACAGGGTTTCACCGTG  
TTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAAGTGATCTGCCTACCTCG  
GCCTCCTAAAGTGTTGGGATTATGGGCGTGAGCCACCATGCCACCTCCT  
GGGTCATTCTTCTGGATATTACCAGGCATTTTATGCTGATCTAAGTGAA  
AACCTGGATATTTTTTTCTCCAAAGTTATTTCTTAGTCTACCTATGAC  
ATGAGGGTGATCTTTATAATTTTTTTTGTCTTCACTGAAGAAATAAAAC  
ATTGCTTAAGGGAGAGTTGGGGGAGTGCATAAGGATCTGCAGTTGGGACT  
GGATTTTTCGGGTTTGTCTTACCTACAGCCTGGTTCTGTCCACCTTTCTG  
AGGATTTTGTGTTTCGCCCTTTGTTGGTCACCATGAGCATTCTTATGGGAA  
TATTTGTGAAAGAAAAAACACCTTTTTTTAAACACCCAGTTTCATGTTA  
TTAACAAGCAGAATTCACCTTAACGGCTGTACCTTGGTCGGGAACACACT  
TAGGGC

>Sequence 717

GGTACTAATCTAAATGCTAGACAGTTCAAGTGAGCTTTGGAGACTTACA  
GATAGCCAGCTAGAGAACTACCAATGATGATATCCATCACGAGGAGTTTG  
GTGGCCAGCCTCCAAGATGGTCCTCAATGATCTTTGCATCTTCATATTC  
CACCTGTGTAGTCCCCTCTCTCAGGGGATTAGGGTTGGTCTGTATGATC  
ACCACATGGCTGCAGTAATGGTATGTCACTTCTGAACCTTAGGTTATAAAA  
GACTATGACTCTCATCTTGGGTGTCCACTCTCTGTCTCTGATCTTACA  
CTCTAGTGGAAGCTGCCATATTGTGAACCTCATGGAAGGCCACAGGGTG  
AAAAACTGAAGCATCTAATCAACAGTTAGCAAGAAACTGAGGCCTGCCAA  
CAACCATGTGAGTGACCCCGGAAAGAATTTTCAGTCCCAGTCAAACACT  
GAGATAACGGCAACCTCAGCTGACAGCTTACCTGCAACCTGATAAAGACA  
CCCTTGGCCCGAACCATAGGAACCATTTCTACCCAAATTCCTGATCTTTA  
GGACCTTGTTAGATAATAAATATTTGTTTAAAGCATGGTTAATTTGTGGCA  
ATGTGCTATATAACCAATAAATAATACATGGCGGATAGAAATTTCTTTTC  
CTTTGGACCAACCGCAAAGTAACCTTTTTTTTCTTTACAGCCAATTTCC  
TTTGGCTAAATACTGTACAAAAGAAGTCCCGAAATATGAAGGATGGGGG  
CAGGTTTTGC

>Sequence 718

CCCTTAGCGTGGTGGTTTCGGGTATTTGGGGCGGGATAAACATGGCGAC

Table 2

GTCTCTGCATGAGGGACCCACGAACCAGCTGGATCTGCTCATCCGGGCGG  
GGAAGCATCAGTTCACAGCAGTAATGCACACTGTGGCAGGAGAATCGCTT  
GAACACGACAGGCGGAGGTTGCAGTGTGACGAGATTGCACCATTCGACTC  
CAGTCTGGGCGACAAGAGGGAACTCCATCTGAAAAAAGGAGAAATTCT  
TTTATTTTCTACTTCTCTTCAGATTTGTCTTATGCATTTTCCAATATGT  
ATGCATCACAGCTATTCTTTTCTGAGTTATAGCTACAGTTTTCCTACTG  
TTGTCTTCATGCCATTTTCATTTACATGGT

>Sequence 719

ACTTNNNTTTTATTTTTTTTTTTTTTNGGAGACAGGGTCTCGCTCTATCA  
CCTAGACTGGAGTGCCTGGTCAATCTCGGCTCACTGCAACCTTCACACC  
CCAGGCTGCAAGTGTCAATCCTCCCGCCTGAGTAGCTGGAACCACACGTGC  
GCACCACTAAACCCAGCTGTTAATACACCATTTTTAACCCAAAACATTA  
AGAAAAATATAGGAACAGTAAGTAGATTACATTTGTAAACAGACAAGCT  
TACAAGTTTTCTCAAATATGAAAGTCATACTAACTGGGAGACTGTTAAC  
TTCTTGATGGGGTTAATCTCTAATATGAAGCCACAGTCATAGCTAACTAC  
AAATTACATATACAATGCCAAAAATATTCAAAAATAACATTTTTTGCACC  
TTAATGATTACAAATGCTAACCAGCATAAAGACACTGGAAAGTTTCAGAA  
TCTCTCATCACATACTTTCAAATATCTTCCCTTTACTTTCAATGAAATT  
GTACGCGGGATTCTATGGTAATGATGACTTGCCAATGTTCCAGGTGGTTT  
CTTAGCTAAACTAGAGAATGCCCTAACTTAGATGGTTTTTTGAAGGCT  
ATTACAATATGGTATTTGGTTTGAACCCCTTTAAAGCTTTTTTACCAAT  
TTTTCTTTTAAACCCCTTGGGGGGGGGGGACCCCAAAAAAAAAAAAAAGGC  
CTTTGTTTACACCCCTTTTCGGGGGGGGGGGGGGGGGGGGAACCAAC  
CCACAACCGCCCGCC

>Sequence 720

GGTACTTGAAGAACATGGTAAAAATATGTTTACAATAATATTTTATCTTA  
GAAATGTATTAGTAAAAAATCTCTTTANTTCAACTATCCTCTTGATTCA  
GGGGAAAAAAGGATTAGCATGGGAGATAACAGAATAGGAAGTTTAGGAGA  
TAATGAGACTTCTGTTTTAGTAAAGTAAATAAGCTTTAATAGTTTTTTGG  
TCATGTATTAGTTTACCAGCCTTGAAGATATTTGTAGGAAATTTTAAAA  
GTTTCTCTATTTTCATCCCCATGATAAAAAATTATATAGAATAAAAGCTGA  
ATTGAACTTTCTTCACAGCACACTGAAAAATATCTTCTATAGCATTAATC  
AGATCACAGAATGCATATTTAAACAAAAATTTGACTAATTTAATTTTTAT  
TTATTTATTTTTTTTCTGAGACCGAGTCTGGCTCTGTGCGCCANGCCTGA  
GTGCAATGGCNGGATCTCAGCTCATTGCAACNCTNCGCCTCCTGGTTCAA  
GCCATTCTTCCCGCCTTGCCCTTCTAAAGTGCTTGGATTGCAAGCCTTTTG  
CAACCTGCCTGGCCCCAGAAAACTGGTTTTTTGAATGTTGGGTTGTTTGG  
GGGTTTTTTTTTCCCTAAAAGCTTAAAAATTTCCCTTTGGTTTTTTTTTCA  
AAAAAAAAAAAAAATTACCTTTTTTTTTTACCCCTCCCTTTTTTTTTTA  
AAGGGGAAAAAATTTCCCCCAAAAAAATAAAGGGGTTTTATTTGTTGT  
GGAAAG

>Sequence 721

ACCCTTGAGCGCGCCCGGGCATGTACGCGGGGTAACTATGTTTTCTT  
TAACAGAAAGTTCTGTTTTTGTGATCCTTTTAAAAATAAAGCTTCACGGA  
AGGATGAGAATAGTATTTTTCAACTTTAAATTTCTCATTACCAGAAGACC  
ATGTGGTAATTCTCTGTATACAGTTAGAACAGCACGGAACTTGAAGGCC  
TAAAAAATTAGCTGACCTTGTTAAAAATGTTGGCGTGAGCAGTATATTAT  
TACCTATCTTTTTTATTGTGTGTGTGTGTGTGTGTGTGTGTGTAACTAATT  
GGCTGAAATATCTGCCTGTTTCCCTCTTTACATTTTCTTGTCTTCTTCC  
TTATTTATCTTTGTCCATCTTGAGATCTACTGTAAAGTGAATTTTTTAAT  
GAAACAAGTCCAAGTTTTACTCTCAGTGGGTTTGGGACATCAGATGTAA  
TTGAGAGGCCAACAGGGTAAGTCTTCATGTCAAGTGTGTTGTTGAGGAACGA  
GCCTATGATGTCAAGTTTTTCCCAAAGGGAACAAGGACAGAAGGGATTGT  
TCATTTTTACATCTCGGTTCTGTAAATACCACCTTTGACTTCATGGTTGAT  
CAGAAATTGAAGTCTAAACCGAACGTAAGCACTTGGGGGTATCGAATTTT  
AATACCTACCACAGTTAGGACAATTTTTTTTCAAAGGGCCATTATTTTTT

Table 2

TGGGGCAACCCTGGGGGGGGGGGGGGCCTTTTTTTGGAAAACTTTGGGGG  
ATATATTCTTTTTTTTCCCCCCCCCTTTTATAAAAAAAA

>Sequence 722

CCCTTAGCGTTTTTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTC  
ATGCTTCCCAGTTTGGCAGATGTGAGCAAACTATGTATAGGAATTCCAAA  
GGTAACTTTTTCTTTTCACTTTACAGAAATACTGTCAAGTCCAATAG  
AGAGCACAGACTTGGGAGGCGGATTGGGTGGGTTGAATCTCTGCTCTGC  
CACTTTTATTAATCATGTGAGTTGAGTATGTGACTTAATCTCTTTAGCT  
CAATTTCCCCATCTGTAAAATAGGAATAATAAAAACTGACTTCAGAGA  
GGTTTGTGAGGATCAATTAGACAGTCATGTAAAGTCTGTAAATTGTTTCT  
GTAATGGGCAAGATAGCAAAATATTTTAGATTTTGTGGACCATGCAGTCTT  
TATCATAAAGTCTTAAGTCCATTATAGTGAGAAAGCAGCCACAGACAAT  
ATGTAAATGAAAAAGTGTGTCTCTGTTCCAATAAACTTTATTTTCAAAA  
ACCAGCTGGCTTGTACATCTGGCCTATGGGCCATAGTTTGCCCATCTCT  
AATGTAAAGAAAGGACTTTAGCCCAAAGCCACAACCTTGCATAGTAATGCC  
TAAAAAATGTAAACATCTTTACTGTTATTAATATTACTACTGCATCTAT  
TACAGTAGCAATTGAGTAATGAATACATGAATGTTATAATGGTAAATTAC  
TAACCTTTTAAAAATATTAAGCATTGGCATATTTTAATACTTTAAATCTT  
TTAGGAAGATAGTTACCCTGCAT

>Sequence 723

GGTACTTACTTTGTTGCTCTTTTTCTAAGTTTTAAAGATGGATGCCAATC  
TCAGGCTTCTTTTCGTGTGTGTATGTGCGTATGTCCATAAATTCTTCT  
AATTACAGTGTAAGCCACATCCCACAAGTTTGTAGTCACAGAAGTGT  
TCGTCACACTATTTTTTAATTTTCAAGTTCTTCACTGATCCCTGTGTA  
ATTTAGAAATGTTTATAATTTCCCTACATTGGAGGGGAAGATAGTTTGT  
TTTTTATTATTAATTTCTAGCTGTATTGAGCTCTTGTGAGAGAATATGGT  
TTATTTTAGTCGCTTGAAATTTAAGATCTGCTTAATGGCAAAATGGATGG  
TCAGGTTTTTGTAAATGGTTGCCAGTAAGCTTGCGAAACATATGTACCTGC  
CCGGGCGGCCGATTGAAAGGGCTATTTCCCA

>Sequence 724

CCCTTTTCGAGCGGCCGTTCTGGCAGGTACTCCTCAGCTTGTGCTGCCCTT  
CTCGAATGACTCGCGTTTCTGCTTTTCACTACACCTCCCACCGCTCT  
CCATCACCTGCTCTGCTCTTATAAGGATCCAGAGAAATGGAATAATCTTA  
TTGCTGATCTATGTAAACAAGTTGAAGAATCGTCTGAAAGAAAAATACAGT  
GTGTCTAAACTGGAAAAGTCTGTAAATAGTTTGTTCATGAGCATTGACAC  
AGTGGAGTTACTGTTCATCATGGGGGTACC

>Sequence 725

GGTACTAACTATTCTAAATATTAACACTGGTCAACTAAAATGCACAAA  
TTCATGAATTGGATTGCACTCAAAACAAAAAATAACCATAGGCAGTAT  
CATTTCTACCTTTGTAAGAGGCAGGAATATTCATTAGACTCTATGCTTGA  
CTTTTCATATGTATTTTAACTGTAGTAGGCTATCGGGTCTAGTTTAAAG  
CTTCATTTCTAACTACTCAACAGCTCAGAACTGACAAAGATCACAAGAA  
ATCAACTATTAACCTCTTGCCTGAAGACACAAATGAAATATTTCCCTATT  
TACAAAGCAAATTAGATTCCAAGATTTTCCAAGCCATACTCCTGCAGTT  
CACTTGGGTTCAAACTTAAAATCATAATAGTAATATACACATATTTACAT  
TATAACCCATTACACATTATTTCAACTCAATGCAAGTCAAACAAAGGTT  
TCACAAAATAACCTTACTATGTGCAATACACTGGTATTTTCTATTCTACT  
CAGAAATTTTAAATACCTATCATGAACCATTAATTTGTCTTACCACTAA  
TGGAGTGACAATACCCAGATTGAAAACTGGATTAAAGAAGTAGTTTTTAA  
ACCCATAATGGTTATTTGGCATTACTTAGGCAAAAAATATTTCTCGCTTTT  
ATAAATTCCTTACCTTTTAAAGCAAAACCTTTTTTAAACCAATTAAAAATT  
TAATGAAGGGCCATTTGACCGGTNAATATTTATTAGGGGTAAAAAACCC  
AAAATTGGCCTAAAAAACCTTCAACACATTCCATAATGGAAGAATGTGGC  
GAAATAAATGTAAA

>Sequence 726

ACTCACTTAAATAAATAATTGGTAAGATGATTTTATCTGACAATTAAAAA

Table 2

AAGGTATATGTGAAAAACCTTAAAAAAATCTATTTTCATTACATGTTGAA  
ATGTTCTGTGCTTAATCCAATACATCATTTAAATTCCTTTACATTTGGA  
CAACAGAAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTATCT  
AAATNGCAAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAGTT  
CTCCTGGCTGATTCTCATGCTACAGAAAGCCCGAGTTTCTGTTCTGTAAA  
TTGTGACAAAGTGCCCGGTACCTTGCCGGGAACACGCTAAGGG

>Sequence 727

ACATTCTATTGTTATCTCTATTTTTTGGATGAAAAACAGCAGCACAAAG  
AAGTTCAGTAACTGGCCTAAGGCCACACAGCTTGTCTTCCTGAAGACTGG  
ACCCAAACCCAGGCAGTCATAGAACATGCTGGTCGCTATTGGGCCGCTTG  
CTCTATGGGGGACGGTGCTCCAGGAACACAGCAATGCGGTTTAGGATTCC  
AGGACCTGGGGCAGCTGCTGCTTCTTTCTTAGTTCTCGACAGACCACTGA  
GTGCAGTTTTTCTAAATCTTTTCCCACTTTGATATGTGGTCCATAAAAC  
TGCTTCCACACGTATAACCCACTGTGAAGTTTAAATGATTTTCATGTTTG  
GGCAAATTCCTACTGAATGTTAAGCTAGATAGGAAACAAGTTCTGACTAA  
CACAAATGAAGGTCTGAATGAAGAAGTCTTACTTTTATAAAGGAATTTTC  
CCCTCCTCACCAAATCCAAGTTTAAATGTTGATATCTCTGTTGCAAAGG  
ATGATAAATAAATGGGTCCCTTGGTTAGTAGTGGGTGTATGGGTGTGGGT  
AATAAGGTATTGAATGTACATTTAATACTCCTTCTCATTTCTATACTGGAT  
CTATCTTGGAAATGATGCATTTTTTCATGTTTAAACATCACTTCCTAATCCG  
ATATTTTTGTCTCTTAACTATTATAATATCTTTCGCTTATATAAATTATA  
TATTACTCTAATCGCTTGCTTCTTTCCTCTACTATTTTATCATCAACAT  
ACTATTCGGTCTTCTGCTCTTACAACATGTAATTATTTCTACTGCTC  
GCTACACGACTGAACCTTAACCAATATATCACTGTCTAGAAACTTCCAGCT  
TATCA

>Sequence 728

GGTACTTNTTTTTTTTTTTTTTTTTTTTTTGGTAGAGACGGGACCTCACT  
GTGTTGCCCAGACTGGTCACAACTTTTGGGCTCAAGCAATACTCCTGCC  
TTGGCCTCCCAAACCTGCTGGGATTACAGGGATAAGCCACTGTATAGAGTA  
TGAAAAGTATTTAAAAGAATCTTCCAAAGGAGGACAGCAGAAATGAAAAT  
AAAGTAAGTTCAAAC TAGAATCCTTGACACAACCTGGTTTTATTCCAATG  
CCTCTTAAAAAGAATCGTTCCATGGGTGGCAGGAGGGGTGTTTTCATGGT  
GTGATGCACCGTGACTTGTTATTCAAGATGTAGTCCAGTGTTCCATCTAT  
CACGTTTTTATACCTTTCGAAAAAAAAAAAAAACCAGAAACCACAACCACAA  
CAAAAATTATTCCAATTAATGGGATTCACAGCAACCTGGATGGGACTGGA  
GACTATATTCTAAGGGAAGTAACCTAAGAATGGAAAACCAACATATGTT  
CTCGCTCCTTAGTGCGAGCACTTATGAAGATTCCAAGGCCTAAAAATTG  
ACACAATGGACTTTCGGGAACCTCGGGGAAAAAGGGGGGGGAGAGGGATT  
AAAGATAAAAAACATCCTAACTTGGGTTACGGTACCCTGCCCGGCCGC  
CCGTTCTAAAGGGGAAATTTTACAGACAACCTTGGCGGCGCGTACTTATGGA  
ACCCAGCTTGGTACCACAGCTGTGGTGTAAATCATGAGCATAACCTGTTT  
CTCTGGTAGAAATATTAATCCGTCTACAATTCTCCACAAAATTTACAGATC  
CGAAGCTTAAAGGTAACCCCTGGGGGCCCTAAGAGAGAGCCAATCCG

>Sequence 729

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CACAGTTGGCCTTTTGGCATAAGGGAAGGGTATTTGGAGAAGAGTCAACC  
ACCACTCATGCCTCTCCCTGCCAGCAGCACCTTGGATTTTCTGGCTT  
TATGCCTCCTGTTTCCCTGGCTGAGTAACTGCAGGCATTAGGTTCTCT  
ACACACGATATATTACAGGGAAATGGCAGCGATGGTCTGGAAGGGCAACA  
CTGGCCTTCTTCTCCTGAGCACTAAAATCCTAAACATGCAACTTAAAA  
AAAAATTCTAAATGTGAACACCACCTTCAATAATTTATATTAATGTATC  
ATCCCACCTTTTTCTTCTCTTTCAACGCCCTTCTTTCTACCCAACT  
CCAAATATACCAATTTGTTGAACAGTTTACATTCTAAGTGCCAACAT  
TGCTAAAGGAATGGATAAATTGTTGTACCTCGGCCGCGACACGCTTAGG  
G

>Sequence 730

Table 2

ACTCACTTAAATAAATAATTGGTAAGATGATTTTATCTGACAATTAAAAA  
AAGGTATATGTGAAAAACCTTAAAAAAATCTATTTTCATTACATGTTGAA  
ATGTTCTGTGCTTAATCCAATACATCATTTAAATTCCTTTTACATTTGGA  
CAACAGAAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCT  
AAATTGCAAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAAGTT  
CTCCTGGCTGATTCTCATGTACAGAAAGCCCGAGTTTCTGTTCTGTAAA  
TTGGGACAAGTGCCCGCGTACC

>Sequence 731

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TTCTATAATATTGCTTGTAAATCTTTAGAGTTATGGTTTCATTTTTTGACT  
ATTAAATTTGAAATGTTTGACATCAGCAGTTGACTCTTCTGTGTAGATCA  
TAATTTTTTAATTAAGAAGACACTCTCAAGTGTGAACTATAATTGTAGA  
GTAAATTTCTAAGTGGAGGATATCGTAAATTCCTTTTTTGTCTTGGTATTGA  
CATGTAAATGTTAACATATGTGAATAATTCAGTCCACGATTGTACAGGT  
TCTATGTCTTTACCTCCTTTCAAAATACTTTCTTTAACAAATACTTTGAC  
AAATTTATTAACATTTATAAGACAAGACTTACCAAGTTGTGTTCTGTTTAT  
GATTCTTTAAATGTTTTCCAATACTTAGATACATCAAAATTATAGGACTT  
CTCAATTCATCCTATTGTTACAGAATAATAAATTAATCAGAATAGGAAG  
ACCCTTAAAAGATCTTTCTCATGAGTTCAGATTTCCAGATAATAATTAC  
AGAAATTTTCAATTTGTACCTTGGCCGCGACCCAGCTA

>Sequence 732

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GTTGCCAGGCCGAGTGTCAGTGGCACAATCTCGGTCACTGCAAACCTCGG  
CCTCCTGGGTTTCATGCCATTCTGCCTCAGCCTCCCAAGTAGCTGGGACTA  
CAGGTGCCCCGCCACCAAGCCAGCTAATTTTTTTCTTTTTTTGTATTTT  
TAGTAGATACGGGGTTTACCATGTTAGCCAGGATGGTCTTGATCTCCTG  
ACCTCGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCG  
TGAGCCACCACACCCAGCCTATTCTTTACTTTCTTAACTTTCTTTTAC  
TTTACTCTATGGACTCACCTGAATTCTTTCTGCTCAAGATCCAAGAAC  
CCTTTTTTGAGGTCTGGATCGGGACCCCTTTCTGTAAACACGACTGTATC  
CCCTTGGCAGACATATGAATCTGCACCCCGCTTGGTCTCCAATATCCAG  
GGATGAACAAGGGAGGAAACCAGGGAATGCTTACTGAGGCATCTTTTA  
TGAGCAGTCACCATGCTAGGCTCTTTACTAACATTGCTTTTTGCACTGTT  
CACAACAAGTCCCTGGATATCTTCAATTAGAAATGTGAAAACGAATTCCC  
GATGAAAAGCCCCACTGCTTTTGAAGTGGCGTGGCTTATATCGGGCTTTT  
GACCAAGATGGACTGAATGCCATCTTGTGTCAGAGGGACTTAGACATTG  
AGGGAAGTT

>Sequence 733

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TCAGTTCTGTCCAATCTTATAATTCTGATTAAATGTTCTGGGCCTCAAAA  
CTAATTTTTTAAAGGCCACTAACTCCAAATCTAGGAACAAAACACTCTGT  
AAGACTACTGTAACCTGTATAAAATTAACCTGAAAAATTCACACTCCA  
ATAAACTATGATTTATGTAGCTCATAAGAGGGTGAATTTGAATATTTA  
CTCTATGAAAAAGCCTAAGCAATTCAATAAAAACTTGATAACTGCACGTT  
TAGTTTGCAGCATCTTGT

>Sequence 734

CCTTTCGTGTGGACGCCCTTTTCAAGTACTTTCTCTGAATTTTATTAGCTA  
CATTAAAAAAGAAAAAGATCAAATGCAATAGATAGCACTGTAATAGATTT  
TGCTACATTAATAAAAAATCCATTTGAATACACAGTGAACATAAACACCAG  
AGTGGCTAAAAAGTCCCTTCATGCATATTTACTTAGCAGAGAGCTCTTGA  
GAAAGACCCAACCAATAAACCCCAACCAAGCAATCCAGCTACTTCTCT  
AGCTGAGAGGGTGGAATGACTCCAAAATATTGTTTCAAGCTCAAAAAGCC  
TAAACAACACTCCACATAAANAACAAAAATCTATCTAATTGGACATTTAC  
CTTTTTGAAAATAAAAGGCCAGTGGGAAAAAAAAAAAAAAAAAAAAA  
GTACC

Table 2

## &gt;Sequence 735

ACTTTTTTTTTTTTTTTTTTTTTTGTACAGACACAGGCTGGGAATTTCC  
CAAATCTTACAAGTTCTCGTCCCCTTTCCCTTAACAACCTTTTCGGAGTA  
TCTCCGCTCTTTCACACTTTATTGTAAGCGAGGAGAGCAGCCAGGCTGCA  
CCTTTAACATTTTCATTCACAGGATCTCAGCTCAGCCAAGTCTCAGCCAT  
TTTGTAAATGAGGATCACTTTCTCCGGTTCCCCGTGACCTGTCCCTCGCC  
TCCTCTAAGCCTCAGCAGAAAGGCCTTCAACATCCACTTTTCCACAACAT  
TCTGTCTATGATACCTGCATTCTCTGAGATGCTAGAAGCTTCTCTCCAG  
CTCTCCCCTTTCTCTCTGAGCCTTACCCGAGTCCCCATTGATGTCCGT  
ATTTTTACCAACAAGCTCTTACCGCTATGGAGGCTTTCTCCAGCAGGTC  
CCTGAAAACGTCTGCAGCATGTACGCGGGGAAGCTCTGTTTGGTGCTTTG  
GATCCATTTCCATCGGGCCTTACAGCCCGTCGGTAGACTCCAGCAGCCAA  
GAATGGTGAACACTAACGAGAGACAGATTGGTTTTTAAGAAACCTTGG  
ACGCCTTGACAGGGATAAACCTGGAGTTAGTTGACTTTTACCCCCGGGG  
TGGGGCCTCGGAAAAAGAACAGCCCTTTTTTCATTTCCCTTCTTGAAAA  
GATTTCCAACGGGATTTTCTCTGAATAAATGTGGATGACTGCCCCGATGT  
TGCTTCAAAGGGGAAAAA

## &gt;Sequence 736

ACTTGTCTGCTTCAATAAAAATTTGTCTTTGATTTCACTGGTGGAAGGGTG  
CTTGATCCAGCTTTTGCTTCTCCATGAGGAGGACTCTGTTTTTCAGTTTC  
CGCTTTTATTTCTCTGAGGGGAAAAAAGAAGCATACATTATAAAACT  
GGACAGCAGAAAGACTGAGTAATTTCTTAAGTTCTATAAACTCATTGGGA  
ACTTCTACAAAAAGTTGGAAAGAATGCAAATTTAATAAAAAATTAGATGCT  
AAAATTGTTTTCATCTAAATTTTAAATTCACACAAATAACATAAAACTAT  
ATGAATAGGTACC

## &gt;Sequence 737

GGTACTTNNTTTTTTTTTTTTTTTTTTTTGTTTTGAAAACCCTTTATTC  
GGTTTCTCAGTAACAGTGATGCATTAAGAAATTCCTGTCTGCTAAACTTC  
ATAGCAAACCGATCCCAGTCTCACCTCATTGTGTGGTAGCCCAGCAGCA  
GAGAAGATAGGAATTTCTGCCCCCTAGCAATACTGTTTCATCCCATCGAT  
GGCCGAAATGCCAGTCTGAATCATTTCTCTGGGTAGATTCCACATTGAG  
GGTTGATTGGCTGACCTAATGTATTTCCAAAAAGGAAAAATTTCAACAAGT  
TGCCGCATTATTCATGAATGAAATTAGATATCATATCAAATTAAGAAAA  
AGAAAAAGCACCAGAAAGACCAGAACTACATAAAGCATCTCTTTACTACAA  
AAAAAATCAGTTATTTTTCAAATATGAAACTTGAAATAATTGTTTCCTTT  
ACTCTTTTGGAGACTCACAAAACATTGGGTAATAGAATTCAAGTTCCTTA  
AGTGAAGATAAAGATATAGCAAATATGAAAGAAAGCCTAATTTCAAATTC  
ATGGTGTTACCATATACATTTTCAGAAATATTCCAGATATTTTACACGATC  
TTAAGATATTAATACCTAAAAATTTTACGATAATTTCTAAGAAAACTTAT  
TTAAGTATAAAATAATTTATTACCTATGGGACGTGTGGCCTATTAACTTT  
AAGGGAATCACAAAAAACACTTTTATTTGGCAAAGGACCTTGCCCCGGG  
GGCCGTAAAAAAGGGCG

## &gt;Sequence 738

GGTACTATCTGCTCTGAATTAATAATTTAGAACAAAAATCACCTGCCGTGC  
CACTACACATGGACATAATCAACTGCTAAATTATGATTTGTTTTCTTCCA  
GTTACTTTTCCAATTATTTTACATATACAAATATTTTCTTGGTAGAAGA  
ACAAAAGTGGCACTATTCATTGTGTAGTTTTTTGTAACTTATATTTTAC  
CCTAAGCATTTTCTCGTTGTCTTAAATTATTAATTGAAAAATTATTCATGG  
CTAAATAATGCCTAGGCTGCCATGAGTCTTTTCTCCTTCTATAAAOCGTG  
TCAGCATCTTTTATATATATCTTTACGACATCTGCAATGATTTCCTTG  
GAATAAATTTCTAAAGTTTCGCTGGATCGAAAAGATTACAGGGATTTTGTAGT  
GTTCTTTCAATTTGGCAAAGTATTTTTCAGAAACAAGCCCATTTTCAGTTC  
TGAATAAACAAAATCTTTTTTATGTTGCATTTAAAATCTACCTCCTTGTA  
GCATATGCAGGGAAAAATGAATTAATTTGGTCAACATGCTTTCAAATACTTG  
AAGAATGTCTATTTTCTTTATGACTATTCTGTGTTCTGGACTATACCAT  
TATTTTCCCATGATTTACATTGGAAGGTGGTGATTCAAGCTCAATGCATT

Table 2

AATTGCTTCTCCGAGGTTTTTAATAATAGATGAAGTGGTTAGCTTCTAAA  
TAAAGGATATTGTAGGTGGAATGTATAATATGGCCTAAGCCCGACAACCTT  
CCCTTGGTTTTGT

>Sequence 739

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CAGAAGTAGGCTAGCAATGGTCACCCCTACATACTCCGCACACATCTTT  
AAGAACAGGACACCATTACCACACCCAAGAAAACCAGCATTTAATGAATT  
TATTCAAGAGTATCATCCAACATACTCAAATATCCACAGCTGTTCCGAAA  
GTATCCTTCAATTCTGGATCCATTGATGGTTCACAGGTTGATTGCGCTG  
TTACATCTTTTTAGTTGTTATCCTTCAGAGTAAAACTGGCCTGCCCTCT  
TTCTTTCTTTACAATATTGACTCCTTTGAGGAACCGGGCTGGATGTGGA  
GCATTCTCCATTATCTGATTGTTTCCATGTGACCAGATTCCGGTCAAA  
ATTTCTGGCAAGAACCCTTCACAGATGACCATGTATTGGTTATTAGGTAA  
CAATAGATTACTCAAGTAGAGAACTGGGAAATTGTCCTTTGTCCATTACA  
ATAAATTTTTTTGAAATCTAGAATTCCTTATGATTCAATTGATTCTTTT  
CTTTTTCTTTTCCTTTTTTTTTTTTGAACACAGTTTCACTTCGTTCCCC  
CGGCTGGAGTGCCATGGCACAATCTCGGTAACTGGAGCCTTTACCCTCT  
GGGTTCAAAAGATTCTCCTTGTTCAACCTCCTGAATAGCTGGAATATAGG  
GCCTGGCACCTTGCCCGCTGATTTTTTATTATTAGTAAATAGGGTTTAC  
CAATGTGGCCAGCTGGGTTGAACTTTGTAC

>Sequence 740

ACATTGTCTGCATTTTGAGATTTTCCTATTATCTTTCTGGTGTTGATTT  
TGTTTAATTATACTGTGATCTACAAGCAACACTGTATTATTTCCATTCTT  
TTAAATTTGTTAAGGTGTGTTTTATGCTCAGAATGTGGAGTGGACTATTT  
TGGTGAGTGTTCATATGGACTTAGAAGAATGTGTTTTCTGCTGTTGTTA  
AATGAAGTAGTCTATGTATGTCAATTATTGTTTGATGATTGATGGTGTTG  
AAATCAGTTATGTCTCACTGATTTTCTGCCTGCTGGATATGTCCATTT  
CAATAAAGGTGTGTTAATCTCTATCTATAATAGTGGATTTATCTATTTCT  
CCCTGCAGTTCTATCAGGTTTTGCCTCATGTAGTTTGATGTTCTGTTAAA  
TGCATACACATTAAGGACTGTTAAGTATTCTTGGGGAATTGACCC

>Sequence 741

ACTTCAGGTTAGAGATGACTTCAATATATGTCCGACACCTCCCAAGGTGA  
GCATCACACAGCACTTATCATAATCACGAAGCAGCTCCACAGAGGCTAAG  
ATGAAAACAAAATCTCAGGAAATTTATGTTTATAAAAATGATACTTGCA  
AAAAAATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTGACTCACT  
GAATAAGATTTTAAATAGTCAATAGTATTGGATGCCTCTATATCTGCAT  
ATCAATAGGCTCATAAACAAGGTGCTCAAAGAACTGCCCATCAACCACT  
TGGTTTCATCTCTGGACACCACACTGTTATCTTCCTTTGGCCTCTGTCCA  
TAACGGGTCCAGGCTACGTGCACCAAAGGAAAAGAAATTGGGTCCTTCTCC  
CCTCACCTGGTTTGGATAGGAGGGCCAGAAAGAAAGTCAGGACAGACCAT  
GTGTGACTGTCCCTAACCCAAAGCAAGCTACCGTGCAGAACCCAAACCCCA  
GGACAATAATCCAGCCATGCCGGAACATGGGTTAGCTTGACCAGCACTC  
ATTACAACGATCCAGCCTTTGTTTAAAGGTGCCAAAATTAGTTTCAAAG  
CAATGTCTAACCTTCCCCACCTTTAACAGGAAAGAACATTTTGAATAATT  
ACCAAAAAGAAGTCCATGGACCTTAGAACTGACCAAAAAAGCTTTATCCTC  
TAAACT

>Sequence 742

GGTACAGGTTTCCCTTGCTCAACTTCTCATCCTGGGTGATGAGACTGTT  
ACTTTCTTCTTGTTATAAAGAGGGCAACTTTCATGTAGAAATTTTACCTC  
CTACTTTTAAAGAAAAAGGAAAAATCAGAGTGCTTTTAAAGGAAAATCAGAGT  
GCTTTTCTTGATCTGCTATTTTTCAAGTGTCTTTAACTCAAAAAAATCA  
ATATGCCAAAGTGGCATGTTTGGGGGTATCTGGTTCTGAATTCCTTCAGG  
AAAGATAGAAAGCAAAAGCAAAATAATAGGTTTAAAACTAAAAATATCCA  
GGTGGGTGGCTCACGCCTATAATCCAGCACCTTGGGAGACTGAGGTGG  
GCAGATCATGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATAGTGAAA  
CCCTGTCTCTACTAAAAATACAAAAATTAGCCAGACATGGTGGCGGGCAC



Table 2

CTGTAATGCCAGCTACTCAAAAAGGCTGAGGCAGGAAAATGGGTTGAACC  
CCAGAAGCAGAGGGTGCAATGAACCCAAAACATCGCATTGACTTCAGCCT  
TGGCAACAGAACCCGACTCTGTTTCAAAAAAAGGAAAAAAGGAAAAAA  
AAGTCCCTGCCCGCGGCCGT

>Sequence 743

ACTCCTCCTTGGCAGCATCAATCAGGCAGGGCTCAGCCCACACCCGGCTC  
CTAAAGACAAGAGAGCAGAGAAAGCAGAATGGTGTITAGAGACCATCGCA  
GTGACCTGATCCTGAAAGCACCTGTAGGAAATTGGCCTCCGCCAAGTGAA  
TGTGACAATGCAGTCAGCCACAGTGACGGAGTGCAAGATCGGATCACCAC  
ACAGATCCAAGAGACCGCTCACCACACCTGAGAAACAAGAACCCAAGACA  
GCCTCATGGAGGTGGAACCGTGCTACGCAGTTATGGCTTCACTACTGAAT  
GCGATCTTGCAANAAGT

>Sequence 744

GGTACGCGGGTGTTTTTTTTTGGGTAATTTTCTTGAGTTAGAAATGTAGT  
TAGAACTGTGACTAACGGCATTGCCTGGAATGTGCTACAAACACGATTAG  
ATATTCATTTATCTCCTCGTATTAGACTGCTTGATAGAGACTCAGTGT  
TTAGACATTTCTCTTCTTGTATAAGACTCCTTGATATAAGACTCGG  
TGTTCATTTTATCTTTTTAAATTAACCACAACAAATATATGAGTTTTTAA  
CCATTGCAATGTGCAATAAATAAATATATCTGAAGTAGCATTAGCCTTCT  
AGTTTTAAATAATAA

>Sequence 745

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ATAACTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAAGAAAGCAT  
CTAGATAAATATCTATCAAAATTAACCTTAAGAGAAATACTCTCTTCTCT  
TAAAAGCCCTTATTTTTTAAGACACTAGAAAAATAAGTTACTATAAAAAGT  
GGTGGTCTGGGGGCTAAAAACAAAACAAAAAAATCCTCTTTTCTACATT  
TTTTAGTTTTCTG

>Sequence 746

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AATAAACCAAAATACTTAACAGAAAATTGTCAGCTATTCTGACAAAAATA  
AACATTTTGAGAGACTTTATTTCTTTTGTCCGTTTCTGTGGTATCACTCA  
TTGTCGTTAAGTAAGTAAAGCTTTTTATTTTAGGTAAGAACTGATTTTA  
TTTTTTAAATTATATTTTATTTATTAGCACAGAAGAATAATGAGAGCC  
ACATTTTAGTTCAACTT

>Sequence 747

ACTCTTTTGTITAGGTATTTCCCTCCTGCTGTGTCCAGGATTGCTGTGTG  
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CAGCATCCCAATTAAATATTTGATGTAAGTGTGATCTTTGAGCCAGGCTT  
ATATATTCATTTTCAAGCAGAGGAGTCCCCATTTTAAATAGAGGCATTG  
TCTGATGTGTTTATGGTTAACTGCATCTGGCTTGGGTCTTTCTGTTTTCC  
TTTCTTTGCTGAATTAGAAGGGGTACTCTGAAGAGTCCAGGTCTTACAG  
TGTGGTTT

>Sequence 748

CCCTTGAGCGGCCCGCCCGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTCATTCAAGAAAGATAATTTTACACTTATTTCTTTGAAAGA  
AAAATTCTATGGAATTTTCTTCTCTAATTAATTCAAAAATACATTCTC  
TCAACCCTATGCCCTCATACTAGTAACTTGATGGTTAGCGGGTAAGTAGG  
TAGTAGTAAAAGAGCAAAAAGGGGAAATTTTGGGAGCAAAAAAGGGAGAAA  
AAGAAAAAAGGGACCTTCTAGTTTCTTAATAGAAAAGCTAGAGAATTC  
CATTCTGAAAATTAAGATATTT

>Sequence 749

ACCACTCACTACATTACAAAATAGTCTCTAACATAAAATTGCCTTAATAA  
CTATACTATTATAGAATCTGATAAACCTTACATTATTAATTTGATTATAA  
AATCTTCTTGGAAAACTTTGGTATGTATCTTCAGAAGGTTTTTAAAAA

Table 2

TAATATTTTAAGGGCCTGTAAACATTCCATTCTATTAAAGCACAGCAGAA  
TAAGTAATGGATATTCAACTGCATACAGAATATAGAATCAAAAAACAAT  
TTATTATGTATTTGTAGAAAATCATTACCAGAGTAAGCAAAAAA

>Sequence 750

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ATTCTACAATGAAATTCAATCTCTTACTTAGCTATTTTGAAATTGTGTCC  
CAATACCACATTAACAGAGCCAAAATGAAATTTAAAATTATGGTTATACT  
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CTTTACGCTAGCTACTTAGGAACCACTTCCCATACCCTCAAGCTAGAGTA  
ATA

>Sequence 751

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ATTCTACAATGAAATTCAATCTCTTACTTAGCTATTTTGAAATTGTGTCC  
CAATACCACATTAACAGAGCCAAAATGAAATTTAAAATTATGGTTATACT  
ATTATTCACACTAGGTAGGGTCAGGTTTTTTTGTCTGAATTAATGGCTC  
CTTTACGCTAGCTACTTAGGAACCACTTCCCATACCCTCAAGCTAGAGTA  
ATAGATACCTGACCC

>Sequence 752

GGTACTTTTTTTTTTTTTTTTTTTTTTTGGGAGCCATGGCAATCTTTTT  
ACACTTGATTTTAGCCAAAAGGCCAAGAAGCAATGAAAGCCATGATAATC  
TTTTATGCAATGTTATCAGGTAAAAAATGGCTAAAGTATATTAGCATT  
TACCCGAGTGGTATCTTTTATAGAAGTCACTACTAAAACAGGGAGAG  
TACTTGGTGTATTTCTGAAACACTCTGCGAAGTTGTGGATAGCTTCTGGT  
GGTAAGGATGGTATTGAACACGTTTACGTCTGTCCCCTTCTCCTTTCTC  
CTGCTTCATACAAGG

>Sequence 753

GGTACTTTTTTTTTTTTTTTTTTTTTTTGGTATTATATAAAATAATAA  
TGCATCTTACAGGGGAAGTCATAAATCCAATGAAATAAAGTATTTACCTG  
ACATATTTTTCCCATCTTCTTATTTCACCAATTTGACTGGTTGTCCAGCC  
CCAAATGTTGGACTTTTTTAAACAATTCACACTGACTGGCAGTCTTCAC  
CTTTAAATAGTTGAGTCCATCCCTTTAAATCATTTAAAAACATGATTT  
TTAAATTTATCTCCATTACCTTATTTTGTGTTACTTTTTTACTTTTATT  
TATTTCTC

>Sequence 754

GGTACTTTTTTTTTTTTTTTTTTTTTTTGGTGGGGAGCTGTATTTATTTCCAGG  
GCTGTCAAAACAAATATCCATAAATGGGTGGATTAGAACAACAAAAATT  
TATTCTCTCTAGAGAAGAACGTTTCTTGCCATTCCCTGGCTGCTGGTCA  
TTGCTGGCAGTCCTTGCTCTTCCCTGACTAGTAGCTACATCATTCTCATT  
TCTGCCTCTGTCTTCATATGGCTGTCATTTCACTGTGTGCTTGTCTCTGG  
GTCTTCAAGTGCCCTTTTATAAGGACACTGGTCATTGGATGTAGGGCCT  
ACCCCAATCCN

>Sequence 755

GGTACATGTTGGAAGGGTTTTTAAATGTTTTGAAACTGTGCACAGGCCA  
AACCCAACTTTCAGGACATGGGTTTTCAACTTCTGGATGGTATGATGGGG  
TGATAGTAGGGTATAAAAGTATCCTGAGAAGTTGAAAGCAGTGTGTGAAT  
GGGGTGTCTTTTCTCCCCACAATCCTTTCCCATCTGCTGACAGTAGACT  
TAGCACCTCACAGATGCTTGGGCCTGGAATGAAAGCCATGAAAATGAAGC  
CTCAGCCTTCTTGAGATCAGAGCCATGGTCCTCACCCACAGCACATGG  
GTT

>Sequence 756

GGTACACAAAATATTAAATAGGATATTTATTTCTAAGCCAAATTTAGAA  
AACAAATTTACAACTTTTTTAAAGTATAAACATAGTGTATGCTTACTAT  
AAAAGGAAAAGTATAAAACATTACTCAAGTATATATAGAAAATGAGTGGG  
CTGCTGATCCCCCTCTATATTATCTATTGCTGTGTGACAGTATTACCACA

Table 2

AATACAGTAGCTGAAACAACACATTTGTTTTCTCACAGTTTCTGTGGGTG  
AGGAGTTCAAGCATAGCTTGGTCTCTGCAAGCTTACAATCCAAGGGTTG  
G

>Sequence 757

GGTACTTCTTTTTTTTTTTTTTTTTTAAATGAGTAGGAAGAGATGGTA  
TCACAAACACAAAGCACAGGTTACTGTCTTTAAAAATTTGCGTTCCTCTA  
TTCTCCAATGGAAGTGGAACAAAGAGAAAAACCCTGTGTGTCCTAGCAC  
AATATGGGCATTTGTGTGGATTTAATAAATGGGCATTTGGATTGTTGGGA  
AAATGTGATCAATCAGCAGGCTATAGAAACACAGTTTGATACGATGGTGA  
AAACTGTCTACAATGATGTTTTTTCAGAAATGTTGGTGTGATTAGAACA  
AGTCAGCAATGATGATGACAAAATATTTACATAATGTTATAGATGTGGCT  
TGCTAATGGAATACCTATCTGAGGCTGTTAGGAATACACAAA

>Sequence 758

GGTACTTGTTTTAAAAACAATGTTGGAAATGAGGAAAATGAGCAATATCAA  
CATTTTATCCTGAGGGACAGGGAGTAGAAAAACAAGCCAGAGGCTGCTAGT  
TACATAGTTCAGTCTTAGGGATGAAGGGATTTATGTCTCTCCTCCCTCAG  
GTACGCGGGGACTACACTGGTGTCTGACTTTTTTCTAGAGATTTCTCCC  
TGAAAAATACAAGGGCTGTTGGTGAGAGCAGACTTGAGGTGATAATAGTT  
GGCCTCTGGTCTACAAAGATTTTATAACTCCTTGGAAAGCTTCT

>Sequence 759

ACTCCGATTGCCTCTCCCATGCTTCTCTGCTTTCCAAAGAAAAAACTGAC  
CTTGATATAGATCCTGTGCTAGCTGATTGCAAGTCTTAACTTCTCCATTGT  
GAGTTGTTGAGTCTGAGGAGTTAGGTATAAACCCAGAGTGGTATTCTCTT  
TTCTGTTGTGTTTGGTTTTGCTTACATATTCAGGAGCTGCTCTTTACCCC  
CAGAACATCCGTATATATGTTTTTTCTGTTTCTAGATTTAAAAATATTC  
CAGAAGCCTGGCCTCAAGATAGATAATATTTTACTTTTA

>Sequence 760

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GTAAAAATTCTCCTTTAAATTAAGTAAAGTTTTATGAAAAAAGGATGT  
TGAATGGATTTGAATGCTCTTTTTGCATCGGTGGATATATTTTTTAAAT  
TTTTCAAGCGGGTAATTGGGTTATTTAATGGGGGGTTTTTTTTAAAGTTT  
AAGGGA

>Sequence 761

GGTACAGATATAAAAAAGGCTACTATTCCAAGAACAAAAATCCTGGAAACAA  
ATGTCTATCAAGAAAGCAAAGATAATCTAAACAGCAGCATATTCATAGGA  
TGACAAACTATTCAACCATTTATAAGAAAACCGAATCAAAAGCACTGGCT  
TATTAGACAAGAGTTTCCCAAACTATCATGCTAAAACAGTAACAGCGAGC  
TTCCAAATTAATGTTGCCTTTTTTTTTTTTTTCCAACTGAAAGGAGGG  
TGGGGAAAACAAACGCATCATATGTAAAGCACTGAGTCCAGCCTG

>Sequence 762

GCGCCCTTCGGCCCGCCGGGCAGGTACGCGGGTATGGTTTTACGAACAAA  
TTTTTAAGGAAAAAAATTATCATGTTCTAATCTTACATGTTAACATTTT  
CTTGTTATGTAGGGATCAGACTTGTATAACATAATTCCACTTTATAATT  
CAATGAAGAAGAAAGTTTTGTCTGATTCTGAGGTATGTAATATTTTATTA  
TTATTACCATATTGATATTCTCTATATAAAAAAATTTACATATTGTAGTT  
TTCAGGTAAAAGCTGTTGTGAACATTATTTTTGTCTAGTGTAGTTAATT  
TAAAAAACAACACTGA

>Sequence 763

GGTACGCCTAAGGGAGAGCTGGGAACTCATCAAAGAGACAAAAAGATGCT  
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GTTTGGGGGGCCCCGATTGCCATGGACTTTGGCTTTTCTGGTGGGAACAA  
ATGGCCATCAGGTGGACCCAACCTTGCAACATCCCAAAGACCTGGCACT  
CATCTTGGTATGAAGGGAGGTTAAAAATAAAAGTGGTTGAACATCCTCTT  
GGATGTGTTTAGGCCAACCTTGGTTACAAGACCCCTGGAATATTGTGTTT  
TAAAGGGGGGTAGGTTGGGAATCCAAAAACCCTGGGGGACAAAAATAAG  
TTTCATTCCGTAACCTTGTGAGAAATTTCAAATTTTATTGGTTCCCCCAA

Table 2

GTATTGAATTAAAAAAAACCCAAAAATTTGGGGGAAGAAAAAAAGTT  
TTGGTTGGGGGTTGGATTGTTTGGGGCAATTTACCGGAACCGGAAGTGC  
CC

>Sequence 764

CCCTTACCGGCCCGCCGGGCAGGTACGCGGGATTTCATTTGAGTGGGAATC  
TCAAAGCAGTGGAGTAGGCAAAAAAAGAACCTCTTCATTAAGGATTAAA  
ATGTATAGGCCAGCACGTGTAACCTTCGACTTTAAAAAATTCTGAATCCCA  
TATTGTAGGTATGGTTTCAATTGGTCGTCGGCAGGGGGTAAGTGAATCCT  
TGGGCAGGTCAACCATAGCCTTCTAACTTTGTTTTAACTTTTTTAAGCCT  
TTTTGATCCAAAAAATCTTTAACTTTTTATAAGGGAGCCAAGTTTTTC  
AAACTTCCCTTAAAATGGTTTGAAATTATTAATTAGGTCCCAGGTTAAAA  
ATTTCCACCCAAGGCCTTCCACCAGGGGAAATACCCAGGGAACCTTTTTG  
AAAGTGGGAAAAAAAATTTGGAAATTCTTCTTGAATTAACCTTAAAAA  
ACCAATTTCAAAAAGGAAATTTCAAAAATT

>Sequence 765

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CCACAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATTC  
AGAAAATCAGTATTTTATACAATCAGCTAATAGCCTAATTTGTTGAGCAC  
AGAAAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAG  
GATATTGGGAAATAGAATGAAGGGCGGAAAGAATTTACATGGATTTCAGT  
ATACTCTCCGTCAGGAATTTTTGTTCCCTTGATCTTTTTGTGTTTATTGC  
CTTATTTATTGGGGCCCTCTCATAATAGGTGGGTTTTTCATCCTAT

>Sequence 766

GGTACAGAAGCAATGTTTTTTGAAAGTTTTCTATCTGTGGTTTGTGAAT  
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AGAAAATCAGTATTTTATACAATCAGCTAATAGCCTAATTTGTTGAGCAC  
AGAAAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAG  
GATATTGGGAAATAGAATGAAGGGCGGAAAGAATTTACATGGATTTCAGT  
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TTCCTGTCCT

>Sequence 767

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TGCTAACTTTATCATGACTTTATTCTTAAAGCCTATCACTGGTCTGCTTT  
TATTAATAGATTAGTGGAATTTTACCTGGCCTATTAGCACCTTATAAA  
GAAATAGATTAAAGAGTAGGAAATATATAGATGAAGATGTACTGTATAGAA  
GTTGTGTAAAAATCAGTATGAAAGTTCAATGTTGCTGTTCTTGCTCAGTGA  
TTTTAAAGAAATTGAGTAGTTCCTATGTGATTTTTTTTTTCTTTTCTAA  
ACTGG

>Sequence 768

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TTTTGTTTATATGCGGATACAATATATACAATAAAACACCTAAACCGCAG  
AGGCTTGCTTGTTATCCACAATAGTTAATACCCAATAGTAATTAATGGA  
TGTGGTATGGTTAGACACCAGTACAAAAAAGCAAGCGGGACGTTATTTAA  
ATAGGGCAAGAACACCACAATAAGCCACCACCAAAAGGCAAAAAGGCAAA  
AAAAGCACCGCCCAAGTAAATTGTTTGTGGGATTGCCAGTTATTTCAA  
GAATTTTGTTCATAATAAGAACAATTAATAAATTCAGGTTAGAACCAC  
TTGTTAAATTAGGTTTTTTGGGTTACCCCTTCGGGCCCCGGCTGACACA  
CCGTCTTAAAGGGGGCGGAAATTTCCCAAGCG

>Sequence 769

ACTTATTTTTTTACTAAGGTTTTGTTTTGGAGACTTGTGTTGAAATAAAGT  
GATCCTCATTCAGGATTTAGAAACAAAAGTTATACTCCACATGCTAGGGA  
TTAGGAAGGCTAATGTGAACCTGATCAAAAAGTATGAATTATGGAATGCCTT  
TAGAATAATCAACTTTTAGGTAATTTGATACTGCTATAATTTCAAGCTTA  
GAGAAAAGTTGTAAGAATGGCATAAGGAACTCCTATATATCCTTTATCTA

Table 2

GATTTACTAAATGTTTCAATTTTGTGCCATTTGTGTTATTCTTTGTCTCATC  
CTAGCCCAGTCAGCCTAACACCAACAGGGATAAACCAAGTAGTCTGATAA

>Sequence 770

ACCTCTCATTTGTCACTTTTCAACACTTCCTGGCAGGCAGGCAGCATAAC  
TGGTCCTGCTGGGGACCAACACACTCTGCAACTCTTTCTTCTGAGCCAGG  
CTCCCCTACTGTCTTTTCAATTTATGTCAAGGCAGGGGAAGACCTCAAAGG  
GCTCTTGCATCCCAGTCTCACTTCCCAGAGAGGCACGAGGCCCTCCAGGA  
TGTGGGGACAGGAACTTTGGGGCAAGCCGGGGCTGTCCAGAAGATCACCA  
GGAGGGCTAAATAGTAGAAAGGAGAGTCTTATTGGTGATATGTTTGCAA  
CTGGGAAAAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAG  
AGGGCAAGGGCAGCTTGGATTTTGTGCCTTACAGGGTTCGGTATTATATA  
TAGAGTCATGCATATTCAGTAGGTTTGGGGGAAAAGCTATATATATTTAT  
GAGGGGAGCCAACTACATGGGCAATGGATAAACATACATGTAACACATCC  
CATGTTCACTTANGGGCAGGATTTTAGCATTAAATGAGGTGGAATTTGG  
CTCTTTACATCAAAAAGTGAGCTATCAGACACAAAGGCGGTTTGTGCACA  
AGCTCTCAAAGGACTNGAGGGCTACAACGCTCATTTTGAAAGAAANTC  
TGTAAGACCAGCCTTGTCAACCAGATTAGGAGGCATCTGACAATTGCCTG  
ATAACTGTACCTCGGCGGGACACGCTA

>Sequence 771

GGTACAAATAAAGTATTCCAAGGGTGCAGAATNGAAAAGGAAGGCAAACA  
ACTTGTTGACATTTGGGAAATTGGGATATCCTTTGGGGAAATGTAGTAAT  
CAGTATATTCTGGGAAAAACATTATAGAAGAATGAATAAATAAAATTTCCA  
TTGAATTTGGAATATGTTGTCCATTCTTCCCTGTAACATAATGCTATCAAG  
ATAAAGTTAGAAATACCACATTTTCAAGAACAGCTGGAAGTAGACAGGGTC  
TTCATAGGGCTAGCTTGGGAAACCTAAATAGCTATTAATAAATGAAATT  
TTTAAGTTATTACTTCTGGGAATTCTAAACAAATGAAACACACCAGTGAA  
TCTTTTTTTGACCTTGGCTGC

>Sequence 772

GGTACCACCAATAATGATGCCCACATTTGTATCCTAAAAAAAAGTGATTT  
CTTGTTCCCTTGCCTACAAGAACATGTTTTCTGTTCCGCAAAGGAGAATA  
AGAAAAACAATGACCCCTTCCATTCCCATAACCCAAAACTAAAACTTCC  
AGGGAGTTGAATTAGAAATCCACCCTGTGGGGCATTTTTTTCCCCCAA  
ACCCACCCCACTTACTCTTGTAAAGATTCTGGATTAAGGCGGCTTCTTAA  
AGAAAGCCCTACCAGGCTTCTTTCCCCCAATTACCCCTTATTCTGAAAA  
AGCCAAGGGAAACCCCACTTGCTTTTTTGGGTCCCAGGGAAAAAACAGGGC  
CATTTACAAAACCATTCAGGAATGTTGGATTTTATTAATAAATGGGGCGC  
CACCAAAATTTCTTAAAAAAGGAAAAAACCCCAAAAAAATTAATAAA

>Sequence 773

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AGCAAAAAATAGGATGACCAAAGGAACTACTATTTACCTTCTTTTCAGGA  
ACTTCTACAAATAGTTAGAATACTAAATTTCCCTTTATGGGAATCTTCA  
AGGGGGGGAATATAAATTGTGCCATGTTTGGAAAGGGGGCATACAGATG  
TATATGGATGTACCAAGGGCTCGGGCATTTTTTTTCAGAGATGGATGGGG  
TTTCATTAACCTTGAACAAGGTAAGGCCAGTGTCTTCCCTTTAAAAACCA  
TAGGTCTGTGTTAGGCAACCCCAAGGCCACCCAATGGAACATAAGGGGCCAT  
GGCCTTTTTTAAAAACAAAAATTTTTTCTTATGGGAACCTTTAACCGCCC  
TTTCTTATGGGGGCCCCCTGAATTTATGTTATAAATTGGCTTTAATTGAAG

>Sequence 774

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ATGGTATATAAAACAAATACATAATATAACAATAAAACACCTAAACGTCAGA  
GGGCTGCATGTTATTCACAATAGGTAATAACCAAATAGTATTTAATGAA  
TTGTGTAATGTATGACAACAAGACAAAAAGCAGCGGGACGGTAATTAAT  
TAGGGCAGAACACAAAAAGGCACCAACAAAAAGCCAAAAGCATAAAAA  
GGCATCGGCCAAGTAAATGGTTTGTGGGAATGGCAGTAATTCAGGATTT  
TGGTCCATTATTAGAACATTAATAATCCCAGGTAGGACCACTTGCTAATT  
AAGATTTTTTGGGTATTTTTTAAACCTTGGAGGACCAAAAAATTTGGGG

Table 2

## &gt;Sequence 775

GGTACTTTTTTTTTTTTTTTTTTTTGGAGAGGGGTCATCCTCCAATCATT  
ACTACTTCTAATCTTCACTGCTACACAGAAGTTTCCAATATTTTAGCAAC  
AGATGGCTTTGCTTTTACCTTATAGATGAGGCCAAAGCACCAGGTAGGTG  
GAAGGTTCTTGATCGGTTTGAACCCCGACAGCGCGCCAACAGACAACAC  
GAGGCAGTGGGGAGCAACACGCTGTTTTAACGAGCGCCTGGGTGCAGGCG  
TGCTTGAGCTGAAAATGGCATTTCAGCCCCAAGTGAGGACAGGGCAGGGGT  
TTTACAATCCCTTTGTAACAGGAAGTTGTTCCAGCCTGATATGATTGCT  
ATGTAC

## &gt;Sequence 776

GGTACTTTTTTTTTTTTTTTTTTTTGGNCTGCCGTGGAGAGGATG  
GATGGGAGGGGGAAGAACNAGAGCTTTGTTAGAGGCTGTTGTAGTAATC  
CAGGTAAAGGCTTTAATCATGTCCTGAACAATGATCAGCAATGGCAATG  
GAGATGACAGAACAGAATTTAAGAAGGAATAAAAAAGGCTTGCTGACTAC  
TTGGATGTGGGTGATGCTATCCTTTGACACAAAGGATTTAAGATGAAGAC  
CATTTTTTGGGGTAAGTAAAAGGTTTGGATTTTTTCATCTTACAGCTT  
TTTTGTACTATT

## &gt;Sequence 777

GGTACTGCAAGCCAAATGCAATGAACAAACCAAGGTTATTGATAATTTA  
CATCACAGCTCAAGGCTACTGAAGAAAAGCTCTTGGATCTTGATGCACTT  
CGGAAAGCCAGTTTCCGAAGGTAAATCGGAAATGAAAGAACTTTAGACA  
GCCAGCTTGAGGCAGCTTGAGAAACAGAATTAACATTTTAGAGAATTGA  
AAAAAGAATGGCTGAAAGTAAGCAAGGGCTTAGTAGCCATTTAACCAAGA  
AGAGGCTTCCAAGGGGAGAAGAAGCTTAAAGGCTTTACTAAACCTTTTA  
AGGAAAAAATTTTGAAGTGAAAGTCCAGTTCAAAAGTGAAAAGTAGAACT  
TTTGGGAAAAAAGAACCTTTCAAGAATTTTTGGAAAAGAAAAAAGTTT

## &gt;Sequence 778

GGTACTGGTTATCAGGATAATACTAGCTTCACAGAAGAAGCTGGGAAGTA  
TTCCCTCCTCTTCTATTTTTTTGGAGGACTATGTGAAGAACTGGTATTAA  
TAAAACTCCTTATTAAGGAAATTTTTTAACATACCAAAAAATAGTAAGA  
ATAGTATCATGAGTTCCTGTGTGATTCCCGCTAACTTCAATAATTATC  
AATAGTCCACCATTTCTATTTTACTTATACTTCCCCTCCCCAACACCTTA  
CTCTTTTGGCGGGGGCTGAAATTATTTAAAGTAAATCCCAAACATATCA  
TTCACCTTTAAATACTTCAATGTATATCTCTAACAGATAAAGACTTTTTT  
TA

## &gt;Sequence 779

GGTACTACGAAGCTGCAGATCATTACGCTGATATGAATGACTGCTTGAAA  
GAACAATGACTCTGGCACAGCCACTGCTTTTCACCCAGGAAAGCAGTTTT  
TCACAGAATGGCTTTGATTATCTTTGCACACCATTTGAGAGAATAAAAA  
GAAAAATCTAAAAGTTAGTCTTAGAGCATACAAACATTCTATATACTATT  
CATCAACTTTATGTGATAATGATATATAATTTATATATACTGAAATTATT  
TTCAGATCCACTTACTGTGCTTAAACCGAAAGTGAATGATAAAGAGCAAT  
GAATTATCTAATGTATCTTTATAATTAAGAAATCAAG

## &gt;Sequence 780

ACAGACAGTGTGATGGATGATGCTGCTGGTTGTAAATTTTCATCGTGTGTG  
TCTAATTTTTTTTCTGTTGAATGGGTAAAAACAAAACAAAACCTTTTTT  
AGAAGATGAATTTTGCTGTCATGTTTTGTGGAAATGAGGGATCCGTTGA  
GCTTCACTATCCACCTTGGAAGTTTGAGTTTGAAGCCATGAAAATTGGTT  
GCCCCATTGCCTTGACGGCTTSCAACCGCCTTGGAATCTGCAACGTTGCC  
CCTTTGTAAAGAGGGATTCCCTTACCCGTTCTTAAGAGAAGGCATAACCGC  
TTTTCTGGAAAAACCTAACTTTGCTTTCAAAAAAGAACCCCTCTGGAG  
ATTTAAACCGTTTTTCAAACGCTTTTCAATTAAGA

## &gt;Sequence 781

GGTACTTTTTTTTTTTTTTTTTTTTGGCGGATGAGTCTTTTAATAGA  
AAAACACACGTGCAACAGTATCAACACACATTTTTTGGCAATCCTGACAG  
CGCTGAACCTCAGTTCTTACCTTGGGGGGTGGCCTGTACATATCAAAAT

Table 2

CTATCAAATTGGACCCTCAACTATGCATTTTTCTGTGTGCAAGTTATATC  
TCAATTACAAACAAAACAAAACACAAAACCTATGGTTAACCCAAAACCT  
AAACTATACCAAGAAATATCAATTGGGGTTATGGCATGACCATCCTCCC  
CAAGAAAATAAAATGCTTGACAGATTCTGAGCGGGACAAATTTCACTGAT  
CATATCCCAT

>Sequence 782

ACAAATAAATGAGTTTGCAGTGAATTGGGCCTTCAAATTACCTCAAGTGA  
CAGATAGTAAGAAAAGCTTCTTGAGCAGGTGGAGGTCACTGAATCCCCTA  
CTATGCACATTATCAAGATTTTACTTACTTTAATTTACTGGAAATTGATTT  
TTTAAAAAATGACTACACTGTAACAAGGGAAGGGATCTGGGTTTTTTTGT  
TGTTTTATTCTTGTTTTTTTTAAGTAGTTCAAATTTCTGAACTGTGATTT  
AAAAATTTTTTACAGTCAAGCATTCTGATTTTGAACATAACTCCCTTCCC  
TTTCTGTGTAACAAAGGTCTCTCTGTTATCTCTTAAATTTTGTTACATCT  
CCCTCAT

>Sequence 783

GGTACTCTTCACTGTCTTTGCCATGAACTTTATAACATGGCTCTCCAGG  
TGTTGAATCTGGTGCCCTGTACCCCTGTGCTCAGGGAACACATGGCGGCA  
ATCAGCATGTGAGGCGCAGAGGGAGGGCAAGCTCCCCTTGATATTTGA  
GGTATCAGCTGACTCAAGTCTCTCTCCCTTCTCTCCTTATTCTCATGCTA  
CCTCTCCCAACCATTTGTCTTAACCTCCCTGGCCAGGATGCCTGCCATATT  
AGATGGAGAGGAGGCAGTTTCTAAATGGCTTGACTTTGGTGAAGTCTCAA  
CTCAAGAAGCTCTGAAATTAATCCACCCAACAGAGAACATTACCTTCCAT  
GC

>Sequence 784

ACTACTCGATTGTCAACGTCAAGGAGTCGCAGGTGCGCTGGTTCTAGGAA  
TAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTATTCGGTGT  
ACCCCTGGGAGGTGCCAGTCATTGAATAGATAAGGCTGTGCCTACAGGAC  
TTCTCTTTAGTCAGGGCATGCTTTATTAGTGAGGAGAAAACAATTCCTTA  
GAAGTCTTAAATATATTGTACC

>Sequence 785

GGTACAAGAGGATATGTGTGCATTACATGCAACCACTACACCATTTAATA  
TCTGGGGTGTGAGTATCCGTGGGTTTTGGGTATCCGTGGGGGTCTGGAA  
CCAATTTCTCCTGGATACTGAGGGATGACTGGATTACTGTGTGTTGTGT  
GCTTGTTTTTAAGCTTCAAAAGATTATGTGATCTAGGAGTTGTTAGATTT  
TATTATTGGTCTTAAAAGATAAGCTTAGATGTGTTACTTTTTTGGAGTTT  
TAGTTTACAGTGATTTCATGAATCGGGCAGCTTCAGACCACAGGAGACATG  
AAGCAGGTAGAAGTTTAAGAAAGCTTGACAAGCAAAATATTGATTTGGT  
TAGAG

>Sequence 786

GGTACTAAAACCTAAAACCTGAGCAGTTTAAAACATTCTTTAAAGGGATAT  
CTAATGTGTTTATTATTAACATAAATAATGTTTTATGAAAAATGTAACCT  
TAGTTTTCCAAAACAAAATGTTTAGGGCAAGAGTAACATTATTTTACAT  
TATTGCATCTCAGTGAAAAATAAATGGCAACAAAATTCTTATATCTGCTT  
CTGCAGTTAATTCTGTTTCAATTTTGTGTTGGTTGAAATATATGAAGGAAAT  
CTGTCTCACACAGTTGTGTAGTGAAAAAAGGGGGACTATTGTAACAGGC  
TGTGCACATTATTGGGGATGATTTTCTTTGATACAACAAC

>Sequence 787

CCCTTTGAGCGGCCGCCGGGCGGAGGTACGCGGGATTCTGGTTAAGCAGG  
CATTGCTTTGCCCTGGAGCAGCTATTTTAAAGCCATCTCAGATTCTGTCTA  
AAGGGGTTTTTGGGAAGACGTTTTCTTTATCGCCCTGAGAAGATCTAC  
CCAGGGGAGAACTCTGAAGACATTCTTGGCCTACCTTTTACTTTATTTAG  
CTTTTCTCCTCATTTTCATATTCTTTATACACCTTTTCTTTTTTGGG  
AGAGATTGTTTATTGCCAATGAATTTTTTGGGTATTTTTATGTTAACAA  
AGGAATTAATTTACCTAAATTTCTATTTTCTTTTATGTTTTTAATTCCT  
AAGTTAAAGAGAAAAATGGTTTGAGGGGTCAAAGCTCATACCAAAATTAA  
CCTAAAGGCTGAAGGGTTAGGAGAA

Table 2

## &gt;Sequence 788

GGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTTCGAC  
CGCGATGATGTGGCTCTGGAAGGCGGGAGCCACTTTCTTCCGTGAACTGG  
CCGAGGAGTAATCGCGAGGGCTACGAAGCGTTTCTGAAGATGCATAAA  
CCAGTCGTGTGCGGACCGCGCTTCTTTCCAGGAACATTCAAGGATAGC  
CAAGCTGGATAGATGAAGTGGGGTTAAAAACCTCCAGGACGGCCTATGA  
AAAAGCTTGCCCATTTGGGCCCCCTGGTAGGAAAAAAGCCTGAAACCCAGG  
GCCCCTTTTGGGAATCTTTCATTGCCCCCTTGGGTTTTCTTGGCCCTGC  
AACGGGACCCCCCAATCTTCTGTGGACCTTTCCTTGGGAAGACTTCA  
ATTTTGCTTA

## &gt;Sequence 789

ACTTAAATTTCTTTATAATTTGTTTCAGCTATTTAAAAAGATAATCCACAA  
TCTCTACCGCCATTAGAGCACAGGAAAAAATTCAAAAATAAAGGAA  
AAACATGGCTCATATATCTACAGAAGTCACAAAAATACTATAGGGCACAT  
ATACCCAGGCCCTCAGCGGTGGGAAGAAAACATACAACCACCGGGCAAAAT  
GTTTGAACACTGAAGACGGGAATTTTTTAGGGCCATNTCAAGACCATGTT  
GAAGGTAACCTGGGAAGTCCTGGATAGAAATAGATTAAATN

## &gt;Sequence 790

CCCTTAGCGTGGTCTCTGCGAGGTAAGTCGCCCTTATGGAGCCCT  
TGATTACAGCTTCAATAGTGTGGACAGTGGTGATAAGAGATGGTAGGGAA  
TGAAGTAAGTGTTTTTATGTTCCGTGTGTTATAACACCTGATTAAGAGA  
AAACAGAATGATGAAAATGAAAAGCGTCTTAAGTGGATTCAAGTTTCTCAC  
TACATAAAATACAGAAAAGTCAAGGTGGAGGCAAGATTCCCACCCTCTCC  
AGCAGAATTGGCATTCTGCGTCCCTACCGGCTTCTGTACAGTGGATTTC  
CGCCTGTTTCTCATTGCCTCATGGAAAATAGTTTCATATCATAGAAAGGC  
AAACAGGAGCTGAGCCAGTTGAACTGAAGCCTACAATCTGAGGTGGGGG  
GTAATCTCGAGCAGAGGTGCTAGATGGTGAGAAAAACAAGTANGACTTTTCG  
GCTGATGGGTAGAAACAAGGACCTTAATAAAGAGTATTCATGTGCTCAAG  
AAGAATAAATCTCTGGCTAATCTGTGCTGTGCTCGTTTTTAAATTATT  
GGATATATGTTGTCTGCTCTTAAATTAAGTGTGTTACAGAAAGTCTACAA  
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TTTCCACACACTGGGGGCCGTACTTATGGATCCAGCTTCGTACCCAACTT  
GGGGTAATATTGTCTAACTGTGTGCTGTGGGAAATTGTTTCCCTCCAATT  
CCCCCACATT

## &gt;Sequence 791

GGTACTAATTTCTTTCTCTTCTAGACCGATTCTAGTTTGTGCTTC  
CCTTTCTCGGAAACCCCAAGTTTGGGATGCTGCAGACACTCTGTGCCCC  
CCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAAGACAGAGACGA  
TGTGGCCTTTGTCCTTAAGAATGAGGTTTGAAAGCCTCAGTTCTTCCATG  
TTAGGTGATTTCTTGAGCTCTTGGTATCTGCAGAATTAGTGTGAATGCT  
TAAAAAATATTAACAGCTTATATCATCAAAGTTTAAACAGT

## &gt;Sequence 792

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGCTGAAGGCCAC  
AGTAGCTAGCTAAAGGCCACACCACTGAACACTAAAACTTAACCTTTACT  
GGCTACTTTGTAGATAACATTCACAGCTCACCATGAATGCAGCTGCAGTC  
AACTAACAGATATGAAGTTACCACTGTATTACATGGTTATATTAGGGACT  
GCTTCTACCTACTGGAGGCTGGGGAGGAATGTAACAGCACAAGCCATAAT  
GAAGTTTATATACAGGCTTAATATAAAAGAAAACCTAGAATGAACTCAA  
CACAATTATGT

## &gt;Sequence 793

ACCATGCAGGGATAGCTGAGTCTTCATCCTCCTCAGCCCCCTATCTGTTCA  
GTGCACTGAACACCAGCTGCTCTCTTCTCTCTGGCTCCCATGGCAGCCA  
TGGTCTGTTGCAGAGAGAAGAGGATTGCCTGTTCCCTCTTTAAGGGAACC  
TCCGTTTTGCTTTCTGGAACCACTCTCTTAATGC

## &gt;Sequence 794

ACGAACTTAAATTTATGATGAATATCTTTGATAATGAGAAATCCTGAGAG



Table 2

ATTTTACTTTCAATTTTATTTTAATTTGAAAGAGCATATGACATCTGGAA  
TATTTTAAACATATAGCCATACTGTTTATTTAAATTTGTAATAATAGAAA  
TAGAGTAATTTCTACTGTTGGATTTTAATTTTAAATCATATTAAAGTTTAA  
CTGGATTTTATTTTAGGACTAAAATATTTAGGACTAAAATAAAATTTTATT  
AATTAATTTAGGACTTTTGGGAAAAGATATTTTCAAGAGTTTCAAGTGCATAT  
CAAAAAAGCGAACAACAGAGGCTTCATCTTTTGAAAACCTTCATTGGCTAA  
AAGTGT

>Sequence 795

ACCCTAGGTGATCTTTGGCTTCCTCAAGTTTTTGCACTCAGAAATCAT  
TTCATATACCACCTTTGGCAAACATGCCAGACCTGCAGTAGACTGAAGGA  
AGCTCTCCCAAGCTCTAAATTTGATTAATTTATTAGTTCCTAGAAGAAAGA  
GATTACATGTTTATCTTTTGTACAGAAGAACTTTGAATAGCAGTTGA  
AAATTTGGCAGGGTGGACCACCTAACTTGACAGTGATTATTGTGTCTGT  
TTTGAAGGAATAAAATGGAATTATTTATAAAGTTTTCATTTGTATTAGAG  
AG

>Sequence 796

GGTACACTATCTGACCTAATCCTCAACACAACTAAGGCAGGAGACACAG  
GGCTGCAAGGACATTTGCTGCCATCCAATTTGTGCCAGCCTGTTTTATCA  
ATCTGAACCTATATTATTTTAAAGACCTCACGGCATCACTGAAAGATGAG  
TATTATTAGTTGGAATTTTAGGGATGAGAAAACCTGACCTCAGGGAGAAT  
AACTGACTTGCCCCGGCTCCAACAGTAAGTGGCCCTGCTGGGATTTGAAC  
CCAGGTGTGTCTGACCCGAA'GCCTGATCTGACCTCTGACAGTCGTGATA  
AAAATAAT

>Sequence 797

CCCTTGGCCGCCCGGGCAGGTACCGAAAAATGATTTTGTATATATATT  
ACCACAATAAAAAAGTTTTAAATTTATTATAGGTGACACTGTTTGCTCAC  
TGTAGGTCAAGTATTTTTTGGTTTTTTTTTCTCTTTATTTTATTTTGGAC  
CAATGGATTACGTCACCAGGTGATTTTTTAAACAGCTTTATTGAGATAT  
ATATCACGTGCCATAAAATTCACCCATTTAAAGCACACAGTTAAATGTTT  
TTTAGTATAGAGTTCTGCACCTCTTATGACAATAAATGTTAGAATATTTT  
CATCACTCAAAAAGAAACCAGTATCCATTAGCAAT

>Sequence 798

ACAATTTTTATGTTTACAGCTGTAACCCCTGAGTTATCAAGAGATGGAAC  
ATTAGATATGATTTATTCCTATTTAAGATAATAGGACATTGCTTGATTAC  
ATTTTCAGAAGATATTTATCCAAAGAAATTTTTTTTTTAAATCTAAAGGA  
AAGGTTTTGATTCTTATGAGAAAAGAATGAGATTCTTTAACTGGAAAAT  
TGATTTATGTCCTACAGTCCATTGTGTAGTGATGTTGGATCAATCAGGTA  
TCGCTAGGGTGTCTGTAGAAGTATCTATATATTGCTTTTTAAGTTCCTAT  
A

>Sequence 799

ACCATGTAGCTCTACTTTTCCATATACAGAGTTGTTTCCTAGCTTTCTGC  
TAATCTAACTGGATTCTCTTCCCCATTTCCCTCACTTAGATTATAAT  
GCACATCACATAATAAAAGCTTAAAAATGGGCTTTCACAGTTACTGTTTT  
CTTTTTAAATAATTGTGAGAGAGCTTTTGCATCATTTATTATCTAATCAT  
GATTCAAGTGACTAGGCTGTAGCACCCAAGAACCTTGCCTTAAAAACAGTT  
TATTTTACCCAATAATACTACTTTGCCTTCTTACTTAAAAATGTCCCGTG  
CTTAACCTTTTGGCTCTTTATTTTGATTAAAGCACTTGACCC

>Sequence 800

GGTACTCTCTATTTTTTAACAAGGCTCCCTCAAGATATTAATGTGACAAAC  
TTACATAGCCAGCTGTAAGATATCTTTCAAATGCGCAAGTAACCTAACAG  
ATTTGTGCATGTCAGCCAGTAATTTCAACATACATTATAAATATGGCCAA  
TTTTCCCAAATTCTAAATGAATGGAGATAAAATGCTATATAATAAATATG  
TTAGAGCACCTTTCTTGAGAACTTCTAAAAGGAAAAAATAAAAGACATA  
ATTATACTCACACCACAGTAAAACCTCTGGTCACCTGTTTTGGGTTGTG  
GAATGCCCCCAGCAGCCGAGAGACCTATATTAATATCAACAGAGAAATAT  
CACACACAGAATTAACCACATACAGTAAACAAGAGCGAGGAAGTCCTGA

Table 2

TGGATGGTAATGCTGCAACTTGGCACAGATATATTCAGTAGCTTCCCAGG  
AATACAAATCTCATGTATTAACCTCAATGTGGCAAGCTATCTCAGATTGGA  
AGCCTAAATACTTAAATTTTTACTTTAGAATGAGTACCCTGCCGGGGCCC  
GTTGCGAAAGGCGAATTTCCACAACTGGCGGCCGGTACTAGGGGATCCAA  
GCTCGGACCAAACCTGGGGGAATAAGGGCATAACTGGTTCCTGGGGAAAA  
TGGGTTCCGTTACAATTCACAACACATTCCAACCGGAGCCTAAAGGTAAA  
CCCGGGGTGCCAAAAG

>Sequence 801

GGTACTGATTATTCTCCTGCTTAGGGAGAAGCGGAAGAAGGCCCTTGGA  
CTGTGAGTTTTGCATTCCAACCTTGCTAATTCAACATAGATCCTAATTCCT  
TAAATGCTTGTAATTAGAAATTCCTGTAAGTGTATTGGTTTTGTCAAG  
CAATCTGTTTGGGGAACCTTGAGCAACTGGGGCACTGCTGGCTAGGGTGAA  
GTTTATTTAATTTGTTTTATGACATTCTTCATCTTGGAAATGGGGTTTT  
CAAATATTGCTTTCCAGGCATCATTACTTATTTGCTGGTTTTTATTCA  
AGATTGGGACTAGCTCAAGGTGCCAGGGAAGCGGTTTGTGGTGCTTTATA  
TTAAAGTCGTAATATCCAAAAAAATTGTCTGATTGTATGGGGTATCTTGG  
ATGTGGTACCTGGCCGGGCGGTCCGTTCAAAAGGG

>Sequence 802

CCCTTTGAGCGGCGCCCCGGGCAGGTACGATAGGCATGCAATTAAGAAGA  
CCTGCCTCAACATTTTCTGTGTGACCTGAGGCAAGTCCTTTTATAGCTA  
TAACTAGGGACAATATTTGCTGTCAATTTTTCTACAAATGTCACAAAGA  
ACAAA

>Sequence 803

ACGCGGGGGGTTTCAGCTGTCTCTTACTTTTAACCAAGTAAAATTGACCTGC  
CCGTGAAGAGGCGGGCATGACACAGCAAGACGAGAAGACCCTATGGAGCT  
TTAATTTATTAA

>Sequence 804

GGTACCTTGCACAGTGCCTTTTAAATTCATTTTGCTGGACAGTTGGCAGG  
CTCTTTCACCTTGAGAGGCTATATCTTAACGATTTAGAATGGAGAGTTTGG  
CTCAAGCTCCCTGTGTGTGGTCTGTGCTTTCTATACCTTTTATTCTTGTA  
TTCCAGAGTCTGGAGGCTTCTCTTTTAAAAATTGCTAGGCTCCTGCCAA  
ATGTTATAATTTGGGGATGTGAGTTCATAAGAAATCAACTGACAAGAGG  
CAGATTAATAGGAGAAATGACATCGAAATTTATTAGCATGCAGGGGGAAA  
AAATTGATTACCAATATCCCAGTAGGGTAGAGATGCTTATATACCCAC  
CTCTTAAGAGAGAGGGAAGTGGATGATTTTAGGGGAATAGTAAATACTTT  
NTATGGGAACCTCAGTGGGCTTGAAGAATATAACAAAAGCCTGGGACAAAG  
TCTGTTGGGCCCACAGAACAGACAGTGGTTTATGACAAAAGTCTTGTGAG  
ATGTTATGACAGACTTTCAGCTTCTTCTTTGTATATGATTCAAGTTAATG  
AAAACCTAGGGAAGGGACTAGAGGTAAATGGTTTTTTCTTTGATGGGGCC  
CAACCTTAAACCGGATAAGAGGACCTTAGAGAACAAAACCTTATTCTGGG  
CTTTGGGAGAAACAGAGGATCCAAGACAAAAGACGAAAGTTGGATTTCAGA  
GAGACCCTGGGCTGCTCAATTCAACATGTCAAAGGCATATTTTGGGTT  
TGGGATTTTAAT

>Sequence 805

CCGGGCAGGTACTATTACTAGGTTCAATTGTTTCCAGAGGGGTGAAACGGG  
GCTTTGGAGAGGTTAAATAACTTGCCAGGGTCACACAGCTATTAAGTGG  
TAAAGCTGGGATTTACATGAGCCCAGACAAAGAACCAAGAAGCTAAGCT  
ATTCTCTTGTAAATACCTCCAACATAGGAGGCAAGAAGTGAGGTATTATAC  
AGGTTGAGGAGATAAAGGGGAGAGAGGCCTGCAGTGCTAACAGGAGGAGC  
TGGGATTCATCCTGGCTTGTCTGATAGGTCAGTTAGTCTTAGAGATACC  
CATGAGGTCACCTACTCAAAATGGGGCTCAGAGTAGCCTTGTCCCATCT  
TGTCCAGTGGGCGCAGCTACAGTCTTCTGCGCTGGAGTGACTGGAGGCT  
GTCCCCACGTCCCACTTCAGTGAGGCATTCATGTGCACCCAACACACTTT  
CTAGCTTTATTTGCCTGGAGGGGAAGATTCTCCAGAACCTTGTTAAGATG  
CACAGTGTGGTCTCGGACTGGCAGTGTGGCCTCGGCAGTCCCTGGGAGC  
TTGTTAGGAATGCAGAAATCTCAAGCTCCTCCCTACTGAATCTAAAG

Table 2

## &gt;Sequence 806

GGTACACATATATACACACATATATAGATATATACACCCACATATATATT  
TGCTGACATTTTAAATGTGAAGTTTGTAGTCTGGGATATAAAATGGAATGTA  
TGACATCCTCAAATGTCTGAATACTGTTCACTCCTATGTTTTACATTTAA  
TTTTCCAAAGCAAAACATTTTCAGTTGAGGATTTTATTAGAAAATAAATAA  
TCATTTAGCCATATCTAGAAACCAGAATAAACAATGCCATAAAGCCTATA  
GGAAAATGCAGGTCAGATTTCATAAATATTCATGTGTTTACTTTTCAGTACA  
GGGAGGAATTTGAAGTAGATAGAAACCGACCTGGATTACTCCGGTCTGAA  
CTCAGATCACGTAGGACTTTAATCGTTGAACAAACGAACCTTTAATAGCG  
GCTGCACCATCGGGATGTCCTGATCCAACATCGAGGTCGTAAACCTATT  
GTTGATATGGACTCTAAATAGGATTGCGCTGTTATCCCTAGAGTAACTTG  
TTCCGTTGGTCAAGTTATTGGATCCCGCTACCTGCCCGGGCGGCCGGTT  
AAAGGG

## &gt;Sequence 807

AATTCCCATGATGTCAGACCACTGGAGTTTCCAGGGGCAACACCCCATAA  
CCGTCCCCTGCAGAAGAGCATCAGACGTTTCAGTAAGAATGCAAAGGGTA  
TCTCAGTGGGAACCGCGGACCAGGAGAGCTCCCAAACCAACACATGGCTA  
GGGCTCTCTAGGCCCTTTCAGGCTAGATCTTGACGAGAGAAGAGTAAAGA  
TCTTCTGAGGTTGGTGCAACTGAAGAAACGAAAGTTTCGGCCTCTGCTG  
TCAGATCTATGAAAGGAAAGAACTGTGAACCTGTCCCTTTTGTCTTCTT  
TGACTTAAACAAAAGAAAATCACTGGAACAAAGTCTTAAAGTAATAACA  
GAAATGTCAGAAAAGTTGAACATCTTATGGGCACATGCGGTGAGTTACGC  
TAACTTATAGCATCCACTGAGATTAGCCGCATAGGATTCTTCCCATGTTA  
GAGCTAAAAGGACCTACTGTCCGCCAGCTGCATTGCAGTACC

## &gt;Sequence 808

GGTACTATCCCCTACCTATAAGGCATTTATAATGTGCTGGGCATTGTGAC  
ACTTTTCATATATTATCTCATGAAATCCTCACNAATAATTCTGAAGGGTA  
GCTGGTATTTTTATCTCCACTTTACAATTCTGAGGCTTACAGAAGTTAAT  
TCAGTGGCCCAGGGTCACACAGTTTACAAGTGCCACATTGGTGAATATAA  
AGTAGCAACTTCTAAGTTTCACTCTCCCACTTCCCTAGTTATTTTCCTAA  
GGCATGAATGTCTGGGAAATAGCATGCATCAGATNTTCCACCTCTTTAAA  
ACTCTTCAGTTTCATATAATNTAGGGTGTGACTATTCATAGATACCTTTGA  
GCTAATCTTCTGGGAGCCAATGTAACCGCAATGCACACTGCAAAACAATG  
CACGCTTTCTCTGTAAATTAATAATGCCAACCGAGCTTGGGAAAAGCCCA  
TCTTTGATATGAACCAATAGGGCAGTTTAGTTTGAATAAAGAAAGT  
CCACTGTTCTGCTTTTCTTTTTTACACACAATAGGTAACCTCTGCTCTAT  
CTTCTACAAAGAGTCCCAGTCAGTTTCTATGCCTACCCTCTTAAAAGTT  
TCATTACACAAGCCAAAACAAATTCCTCCAAAAAAGGATAATGAATCCTA  
TTAATGAAAAGTGGTATTTTCTCTAATCATNTTAATAAAAGGAATGGGG  
GATCAAAATGGCATTAAGCTCATTTTTGAAACAGAATTAATAAATAAAATT  
GCAAAATATTGTAAAAAAAATTGACAGATCACAGCCCCCTGTTGTAAGGCT  
ATTCCCATTAAGAATG

## &gt;Sequence 809

ACTTTTTCTTTCTTTTTTTTTTTTTTTTGGAGAATATTGCATACCTAT  
TAGAAAAAGTCTTTTAAACAATTAATAATTGAAAATGACTGACAACTTACAC  
TATTTGATTTAAATAAATAAATAAATGGTCACATGATAACAATCTCCTGA  
TTGATATGCTTTTATTTAACCAGGTTCTCAAACCATTTGGATGTGAAAACCA  
AATTTTACAATGCAGAGGTAAGTGTGAGTGTTTAATGGGATTTTCATATT  
AAACATTAAGATCGTATTTGACTAAAAATCTCTTATATACATTTCTAATA  
CTGAAGCAAAATCGCCAACGTGACTGTAAATTATTTGAAAAAATCACAAAT  
TTCAGTTAAAATTGAATAATTTTATTATAGGTCTCATAATCTTTTTCAGC  
TTACATGGAATCAATGTGTCTTGATTTTATTCTCGTTAATTTTATAAGG  
CCTTCATCTCCTTTTCGGTAAATGATTGCCCTCTCATTCATTTAATGGTG  
GTTGTTACACTAGCAATCTGTGGAATTTTACATGTGGTTCGGGATTTTAC  
AAAAATTGGAATTAGTAGATCTAACGCTTGCAAAAAAATTAATATACACA  
TGGAAAAATACTGACAGNTGAACTTTACACATTAATTTTTTCCAGGTAG

Table 2

TAGGTTGGCAGCCAGAATAGGTGCTGAGTTTGGTGAATGGTTTTAAAGC  
TCTTGGGAAAACAAATTTGGCAAAGGGGAAGTACTCATTATTGAAGTTCT  
TTTTTTTTTACCTTAAAAAAAGGATAAATGAACTTGCCAAATAAAAAAA  
A

>Sequence 810

CCCTTAGCGGCCGCGCCGGGCAGGTACTCCATTTCTTTTTATTTCATATTAT  
TTCACCAAATAATATTCCACTGTGTAGATCTATCACATTTTCGTTTAGCAG  
TTTATCAGCTGGTGGACAATTTGGCTGTTTCCATTTTTTGGCTGTTATGA  
ATAATGCTGCTATGAGTCATAGAAACCATTCCTCTTACTCAAGAAACAGG  
TTCTCCAGAACTAAGCTAAACTTGTTTGAAATGTAAATTCCTCAGGTATT  
CTCAGTATAGACCTATAGATTCAGTTAGCTGGTGGGGTCCACCCAACTTC  
TTTTAACAAAGTCTCCAGTGGATTCTGATGCAATGCTAACATTTGTGAAC  
ACTGTCAAAATCAAAATGGAGTCACTTGTGTTTAAAAATCCTGACAAATA  
AAGCCAGGGACAGCTATGAAGAGAGGGTTCTCATGCATCAATGCCTGATT  
AACANAACTATCCCAAATGACTCTGCANAAACCACAATCCTGCACAAAG  
GTCATCACAACCTTACACAAAAAATATCTTCACAAGGACATCTGTCCAGC  
AATTGCCTGTCCAATCTCAGACTGGTCACACTTGTTACTGATCCTTGTN

>Sequence 811

GGTACAATCATTA AAACTATGTTGTAATACTGTTTGTCTTTGTATCCATT  
CTGGCGTGTCTCCATACACTTCACTAATATTTGATATACCTGTTTTATAC  
CAATATAATGCTGCTGCTGTACGTAGAAGCTGTAGTCACCATATCCTCTA  
TTTGTTCAATTAATTTTTTTCATCTTCTGGCACACTAGGATCTATAACAATG  
ACAATATCTTCAAAGCCATTATTATTC

>Sequence 812

GGTACCTAAGAGTTATTAATACTATTTTCAGTAAAAAAAATTTAATAA  
ACCCTGTGTGATCCCATTGTAACAGAAAGGCTGATGTTTTCTGTGTGAA  
ATACAAATGCAAGGAAAAATCATTTCTTTGTTTCAAAGGATGCATTTCT  
TCCATAAAGAATAATTTGTATTTATTTTTAAGGGTTTATTTAACTTATA  
CATCAGCCTATATAAAATACATTTCAAAATGATCTGTGCTCTTTAAATTA  
CCAAAGGCAAATGTTAATTTTTTTTCCCTCTAACAGATAACAAGTTTAA  
CTCCTATGCTGATTTTTCTGGTGCCACTGAAGTTATTTTGAAGCCGAAT  
TAAGCAGAGGAGATGGGGATGTCGATTGGGAACACCCCGAGCTGTTTAC  
ACAAAGCCTTAAATGGCCACAAAAAAATAGTATGGGGATAATTAATAAA  
TCCTACTGGCCTTTTCTATAACCCCGGAACTTATTTAAAAAATCCGTGA  
CATATTACAAGAGATTTTCCTGG

>Sequence 813

CCCTTGAGCGGCCGCGCCGGGCAGGTACATGTGCATAAGAGGGAATGCTTC  
CCTACATTACTCCAGAATACAAAGCTTCTTTCTGCCTTCTCATCCACAT  
AATGGAAGACACTTCTTGGGTGAAATACTCCACAGTTATTTCAAGTTCTCA  
CTGGTGAGTCTGAATATAAGCTCTATGAGAGCAGGGACCTTGTCAGTCTT  
ATTCACAATATCCCCAGCCTCTAGAACAAGGCTGGCACATAGTAGATGCA  
CAAAAGGTGTTTGTGAATGAATGGATGACTGAGTCTGTGTGGGGTAATG  
ATAGGGCTAAGGATGGGACTCTAAACTCAGGTTTCCTCTGTGGGTTTCAC  
AGTTTACTGGTCTTAAGAGGAGAGTTTCTAAACTTGCCTTATGATAAAA  
ACCACCTTCAGCATTTGGTAAAAATTACCCATTCTGTAGATTCTGAGTC  
AGTGAGCTGAAGTGGAGCTGATGAATCTGTTTTTTGTGATACTGCTGCTG  
CTGCGGTTTTTAACACATGCTTCAGGTGGTTCTAAGCTTAGGAAACCTTG  
CCCAAGGATACCATCCTGTCTCTTGGGAAACTGTCTCTAT

>Sequence 814

CCCTTAGCGTGGTTCGACGCCGACGTACTTTTTTTTTTTTTTTTTTTTTT  
TATAAAACATTATTCATATTTTATCTTATTTTAATTCACATTTATATTAA  
CTAATTTTTATCAAAAACCAACAACCAAAACAAAAAATATTACAACAAA  
CAGAGAAACGAATCAAACCAAAAACCAAAAATACTTCTGGAATTCAAAAT  
GATACATTATATACCTATCAAGACAACAACTACTAACTACCTAACT  
ACAAATTATCATAAAAAATGACTCCTGTCTTATCAATAAAAAAATGCTA  
TTAAAATTGAGTATTATAACACAATACAATGTCTACAGCTTTT

Table 2

## &gt;Sequence 815

ACAAGTATTATGTATCCATAAAAAATTAAAAATCTTTAAAAATGCATATG  
GGGGTCAGTAGGTAAAAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGC  
ACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGAAAA  
GGCCCCGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGGAACTTG  
AAATTTTATATTTAATCTTCTCATTTTAAAGTGTTGGCAATGTATTGAAG  
ACTTTGAAGCCTCTCTGCTGGTCAAACAAGATGTATCTGTAGGCTGGATT  
TAGTCCACAGC

## &gt;Sequence 816

GGTACAACGTGAATAGCTATTGGTCTTCAAGTGGGTTTAGATTGGTGAC  
ATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTATG  
TTCTAACATGATTATATTCATGGTGTTACATAGGCCTCAATTTTTTCA  
GAAAGATTTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATT  
TTATAAGCAGAGAACACAGCCTGATAACTTAGTCAAGGATATACTGTCTG  
TCTCACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACA  
TACATA

## &gt;Sequence 817

GGTACATGTAATAGACACTATGCTACAGCAAAAGCTTTTCTTATTGTCTT  
TAAATTTTCTCGGGTGCAATAAACTATGTNGGTAACTCTTTCCCAATTT  
TTAACTTTTACATTACAAGTCATTTTCAGAGTAAAAAGTCATTTAACAAA  
GGCAGATAGAAAGGCCTCAAATCCCTGAGGACCAAAAATCCCAACACATT  
TTCAAAGGGAGAAAAATTTCTTTAACTTCATGGGAAAAGTATTTTAAAC  
ATAATAGAGAGGCTTTATGCAGT

## &gt;Sequence 818

GGTACTTT  
TTTAACACTTTCAATTTTGAACATTTGTTTTTTTTTTGAGGGGAACAAAA  
TTAAATTTTCAATTCTAATTTTTTTTTTTTTTGGACACATGTATTCCTTT  
TAGTGGAACAAAGGAAAAAATAACTTTTTTCTCCAAATAGTCGGCCTGG  
AAAAACCAAAATACAATGCAGGGATGGAATCAAATTAACAAATTTTTTTT  
CCTACGGAACAAGAGCCTTTTTTGGGTATTTTTACCAACACCTAGGAAA  
AATTCCCTTTTTATACAAAAGTCATAGGGATTTTTTCTTAAAAA  
ACAAGGTTCTTGGGCTAAAATAAATAGGTATTACTAACATAATTCGGGAA  
CACGCCCAATGCCAGATAATAAACGGGAACCCGGCCCCCCCCCAAGCGGA  
ATAAAAACAACCTCACGCCCCGGGGAAGGGGATATCGGCTTTGACCCCT  
TCTCCCTTACACGAGGAAATAATTTTCCGGCGAAAAACGGGTAGGGGT  
AAAATTTCAACAAAAATACAAGGCGCGGAACATAAAAGTAAACCCGGTG  
GGGCTAAGAGGGGGGCAACCCCATGGCAAAGGGCCCCCAAGGGCCGAAA  
ATCTCAAGGGCCACGGTTGTGGCTATTCCAAAAACACCCCCCCCCAACAGG  
AATAAAAAATTTCCACTTAAGGAGG

## &gt;Sequence 819

GGTACAACGTGAATAGCTATTGGTCTTCAAGTGGGTTTAGATTGGTGAC  
ATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTATG  
TTCTAACATGATTATATTCATGGTGTTACATAGGCCTCAATTTTTTCA  
GAAAGATTTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATT  
TTATAAGCAGAGAACACAGCCTGATAACTTAGTCAAGGATATACTGTCTG  
TCTCACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACA  
TACATACATTCTAAATGGTATATATTGGGAATATATGCCCTTTAAAAGA  
ATCAGGTCAGAAATGCAATAACAATTAGACTAGACTGTTGCCCGTGTTAG  
GAGAATGTGTGGTCATCCTAG

## &gt;Sequence 820

GGTACTAGAATTAGTTCCAACACTGCTGGTGATAAACTCACCATCTACC  
TTCACTTGTTTTCTCTTAATTCTCCAAGAAGTAATCAGGTGAATAAGAA  
TCATCATCAGATAATATTCTCCAAGATTCTTTAAGAAATTAATTTTTATC  
TACTCTTAAATGATTGCACAATTATAGGATAGAAATTACTATCTTGTGCT  
CTAATTCAAATTTGCTCTTAATGATCCTAGAGAGAAATGAATTACTAGAGA  
TAAAAGATAAAATTTTGTGTGGTTTTCGATCTTTGTTTCTTCTTAAAA

Table 2

CTTAACAG

&gt;Sequence 821

GGTACTGGAAACCAGACCTTACTTAAGCCCACCAAAGGCAAGGTTTGGGC  
CTGCCACAGCGGATTTCAAAAAGACAAAGCAATGCAAGCCACGTGTTCAA  
AATGCCCTAAGTGGCTATTCAAGTAATATATAAAAGTAAGACCAGGCTAA  
TTAGTATACAATGGGGTAAACCAGAGAGCAGAAAGCCCTTCTTTAAATG  
AGCCTACCACTGCTTGGCCTCAGTGTGAATTTAGACCCCATCTTCTGATA  
TTTCAGGAGAAAGTAAAAATCTAGATTTTATCTAAAAATCTTTTAATTT  
TTAAACAGTCACCTGATTTT

&gt;Sequence 822

CCCTTGAGCGCCGCCCGGGCAGGTACAGAGCATCTTAAGGTTGGAAGGA  
CTCTTAGAGACCATAGTCCAGCCTCCCACTTGATACTGAAACACGTTTGT  
GAATTCATGGCCGATGTCTAACTTCCCTCACCACCTTTCCGATATGGACA  
GTTCTCATGCCAGAAGCAAAACCTTCTTTATTGTGCCTGTCTCCCTTG  
ACTGTCATGCATATAATCAGCATCTTTCCCACTAAGTGAAGGGCCAGAC  
TCGAGCACAGGAGCACAGCACCCCTTAACTCACGAGGGGCTGCATTAC  
ACCATCAGCAGGGAGATTACACTTGTGTCATTG

&gt;Sequence 823

CCCTTAGCGGCCGCCCGGGCAGGTACCAAGACTTTAGAGGGCAAAGAACA  
GAGGATTCTTGAGAAAGGGGACTTGAAGGTGAAGAGATAAAGGCTGGTGC  
TTCCAGGAGCGTGGGTCTCCTACGTTTGTGTTCTGGGAAGAATCTTGGA  
CTCAGGCGTGGGCAGCTGGATGCCTGGGTTCTTAGGCTTCTCCAGGCA  
ATGTAGTTGCCTCTTTCTCTCCCGCGTACATAGTAAGTGTATGATAGAT  
GTTTGATTGTAAATTACAAATATAAATTATCACCCCATTTCCATTTAT  
TTTCTTGATATATCAAAATGTGTTGA

&gt;Sequence 824

GGTACCCCCATTATAGTAGGGAGACTGAATCTTCAAAGTTACAGGGTGAA  
TCAATGATAATGATCTTTGCAGCTTTCTGGAGTTAAAAAGCATCAAAATT  
GGGAGATATTAGATGATGACATCTAAGTATTAATAAAGGAGATATTA  
TGATGACTCCTAGAAATGAACCTGAATAAGGACTACCGCAATGTGTGTGG  
TGTGGGAAAGGACAGTCTTTTAATGGCTGGCTGACCCAGCCTCAATTTT  
CTTGACGCTTCGCCGACACGAGGTGACCATCTGCAATTACGAAGCATCTG  
CCAACCCAGCAGACCATAG

&gt;Sequence 825

GGTACCTCTCATGGCTTTTTGGTTCCAGCAGTGAGGGCATTGGTGAGATC  
AGTGGTAAACTGTGCAAGCTTTCTTTTATCATTAGGAAATGTGAAACGT  
TGGACAAATTTGAGTTTAAACAAGGACAAAAAGTTGAAAGAAAAGGCAC  
AGTTAAACAAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGA  
GAGAGGAATGCTCTTGAAAGGTGGTCTGTGGATCTGTCTGAATAGAAAGA  
GCACAGTAAGTATGCATTGCCGGAGAAAACGTCCTTGAAGCTGCTTGTCT  
CATGTGTATGATGTGC

&gt;Sequence 826

GGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACATTGTGATACAGG  
AACTGTTTCCAGAGCTCAATAAGGTACGCGGGAAGTCAACTCAGTTACC  
TCTGTTTGGTGTGTGTATCACTTGACAGATGCTGTCTACCACCTTTTCAGT  
GACATCCTAGAAGCTTCTCTATTACCACAGTAACTGGCTAACTAGATATG  
ATCTTTCCCTAATTTTCATGAGCATCTTTTCTGATATAAACCAGGGAG  
GGAAAATAACAAAGTTGCTTCACTCTGAAGGAGTATTCTCCTCTAGTACC  
TGCCCCGGCGGAC

&gt;Sequence 827

GGTACATATAGAAAAGCCAACATTCTAAAGTAGAGGTTCACTTAATTTT  
TTTTTTTTCAAGAGAGGCTTCTTGGTAGTTTCATCACACAGTGGTTTTA  
TTAGGGGATGTAAGGATTACAGAAACATCGATTTTTTAACATATAGTAT  
TTTTTGAATATGATTTGAATTAATATAGAAAAGTGCATTTTTCCAGTTT  
TTTTAGGGAAAAGGAGATACTTCACCAGGAGGATAAAAAGGAACAAGAGG  
GGAAGGGGAAAATAAAAATTCCAGAAAGATGAAAAATTGTTGATGTAAGAT

Table 2

GGAGGCACATTNT

&gt;Sequence 828

GGTACAAACAAGCTTTGTTAACTAACCCTTGCCATCCTGGCTACTTTAC  
CCAATTAACCACCCTAGCCCAGGACGTTTGCTTTATCACATGTTACAGT  
TTGCTATTCTTTGTTCAATCTTGTAAGTACTGCAACTGCTTCTGTGGGT  
CTCTGTTTCTTTATGAAGTTTCCCAGGCCATACAAAACCTTGTTAGCCT  
ATCTTCTGTCTAGTTTAATTGTGGAACCTCAGCCAGGCCCTTAAGAGGATGG  
AGGAGAGTTTTTCCCACAGCAGTTCTGAATGGGATGAAGTGAAAAATAAA  
ATCTCCCCATTGCCACTACACCACCTCTGATGAGTCTTGACAGCAGAAAT  
ACCGTTTAACTGTTTCTGCTTTTATTTTTTCTGATTATCATCCAGTTT  
ATATATTCATATCTGGGTGCTTTGATAATTATATATACATACTTTTTGA  
TATTATTTACTTATTCTTTACATTGGAAAGGAACCTTGCTTTGTAATCTAC  
ATTCCTTTCTCTCTACATTTTTTTTAGTTTTTTTCATTTGGTTTTCTAAT  
TGAAACTAAAGGTAGACTGACTGTTAATTGAAAAGAGTTTCAGCTTTAGG  
ACTTTAAATTTTTAAGCTTCTTTCAATGGTCCGGACCTAATTTTCAATTG  
CAGTATTGTCCTGCCCCGGCCGTTTAAAGGGCAAATTCAACACACT  
GGCGGGCGGTATTAGTGGATCCT

&gt;Sequence 829

ACTCACAAGCAATAACAGATTCATAGATCAGTTGACATTGGCTGGTCTCC  
AGGACAGGAATGTGGCCAAAAGGTGCTTTGTATAGACGCGGGGCACTGAA  
TCTGTGTCTCCCCTGTTACCTACTTTTGCCAGTGAAATTTAAGTTTTAAA  
ATACTTTCAGAATGTATTTTTACTACTGCAAGTTTTTGGTCTTTAAATG  
TCAAGTAGCATCTCTCTCTTTCTCTCTGCTCTTTCTGTTTCTCTCTCCA  
GTTTTTTTTTTTTTTTAAATTTCCATATGGGCTAAAGAATCCAAATATTT  
TAAAAATCTGGCTCTCTTTTCTCTCTCATAAAGTGAAATTATTCCTCTTT  
TTTGTTTTATGTAAAGTGATATATTCTTAGTTTTTCTTGAAATCATTTGTA  
ATGCTAACTTTGTTGTTTCAAATATCTTGGTGATTGCTTCATTATCTCT  
CAACAAAAAAAACCTTTAATTTTGCCATTGAAACTGTAGAACTATGCCAT  
GCTTTTATTAGAAGCAGTGCTCTGTGTTAACAACAAGAATGGTGTAATTA  
GAATTGGGATGGGGATTTTACTGTATGACAACACATTTACAGGTCTGTA  
ATGCAAGGATGCAATTTAAAAATGTGAAGTAATGATGGGTTTTGAAATAA  
GCTTTAAATATATGGACTTGAGGGCTCCTGGGGAACATTTTTTACCTAG  
ATAAAAGGGTT

&gt;Sequence 830

ACAAGCCATTGAATAAGCCTCTCTCTTTTTTTTGCTCAAACATTCCACAT  
CCTTGTGGATTCCCCTGCATTGTTTGTATATAACATTTGATATTTGT  
TGTAAGCTTGATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCT  
CCAGTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTA  
TCTAAATTTCTATTGAAGCTTTTTGGATTATGAGTATGCTGACTTTTCAC  
GATTGGCTGGTGCATGTTTAGACTTAAATGTCATATCCTTCATGTCTCAA  
AGCCAAAAATAGTAACATCTCATCTCAGAACAGAGCTGTGACCACATGCCA  
ATATATGTGTCACAAAGTCTACATATGTTACATTCTTGGAAGTCTCCTT  
AAATGTTTCAAAAAATGTCAACAAGCTTGTTTGTATTGATATTTCCGA  
GAATGGGCACATTTAAGACAGTAAACGGGAAAAGGTGGTGAAGATGCTATA  
AGAAGATGCTGTATCTTGAGAATTGAAAAATGAGAATCTGACATGGTTTG  
GAAAAATCATGAAAGGTTTATATAAAGGATGCATGTGTAGGAGCCATTTAA  
ATTCATAACAATATGTGCCCTTCAGCGTTTAAATCTTATGAAGGGGTTA  
AGAGATAAGTCTTTGGAAGTGGACAAAAGGATTGAATTTAGGTTCTGTG  
GATAATTAG

&gt;Sequence 831

CCCTTGAGCGGCCCGCCCGGGCAGGTACGCGGGCTGGAAAACCTGAACGTGA  
AGTCAACCACTAGGCAAGCTGCCTGTAATTGAGCTTGCTTGATATGACCA  
ATCAACCTTTGCTTGTGAAGGGTAGTTATCTAGTTTCCTTCTTTTCTT  
TTTTGGAATTTGGTCTTTTAAAGGTCTTGATAATCTTTCTAGTCTAGAGCA  
TGTGAACAGAACAGAAGGAAAAATCAGGACTCAGTTTACTTAATTTAAGCA  
AGCATTGGTTGCTGCAGTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACTC

Table 2

TCTTATTAGCATGGATGCTTAAGAACTTCAGGGTTTGGAGGTCAGCTGAA  
CAGCTGTTTTTGCACCTCTCCCTTGTTTTAGTAGCTGAGTCTATAAAAAA  
ATACCACTCGGGTAAATGCTAATATACTTAAGCCATTTTTTACTTGATAA  
CATGCATAAAAAAGATATTAGGGCTTTCATGGCTTCTGGCCCTTTTGGCTA  
AAATCAAAGGTAAAAAGAATGCCATGGTTCAAAAAAAAAAAAAAAAAAAAA  
GTACTTTGGCGGGAACCACTAGGGCAATCCCACAAATTGCCGCCGTT  
TTTTATGGATCCGACTTGGGTACAACTTGGCGTAATAAGGGCAAACTG  
GTCCCGGGGGAAAAATGTTTTCGCTTCAAATCCCAACAATATCGAACCGG  
AACTTAAAGGTAAACCTGGGGCCCCAAG

>Sequence 832

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AGCTAGGGAGAAAGAGGAAGAGATCCTGTTGAATTTCTGTAAGTAGCGT  
ATCTCCAGATAATGCATGAACAGCCAGTAAAGATGAACGCAGATTATTGA  
TGGAAAGAACACACATGGAGAAGAGAAAAAGCAAGTCCACAGAGCTTTTT  
AACATACACTCCCTCACCCCTACCCNCAGCTTAGAAGGGCAGGAACCTGC  
TGTCCAAAAACAGGAAATATAGGAAATACCAGCTGAGAACTATCCACTTG  
ACGTCCATGAGCCCCAGCTGCCCTCTCACCTCACTCTATTTTAAGTCAG  
TGACACACAATCATGCTTTCCTTTTTTGCACCTGAAGGAGTGATGTCCT  
CCAGACTGAGTCTTATTAGAGGGGATGATGGAGTGATTTTAGACCTGG  
GAATGGTCTAAACCTTTTTGGCTTAGGCTAATCATTGGATCCTTCAAGG  
AAATTGGATATTTGAATGCACATCCCAACCCGGGGTCTTATCAATGAA  
CCCTTACCTTTAAGGCACCTTGTGGTTGAAAGCGGGACAATGAAGCCC  
AGAATGACTTCTGGTCCCTCCCTTTTGCAATAAAAGGTTGACCCAAAGCT  
TCCACATAAAATGTCCCTGCCCGCGGCCGTTTCAAAGGCGAATTCTCA  
CCAATGGCGCTTTCCTTTGTACCCC

>Sequence 833

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTCAAGTAGAAATCAAACAGT  
CCTAATGGAGTTCATATCTTATGGCATTATAGAAAGGCTTAGTTATGAAA  
CTATCTTGTTATTGTTACTATTACATTGCCTGGCTCATATATATAAAGCA  
TTTAGAGAGACTGTTTCCAATAACTCTCATTTAATTGGTGAAAAAATTAAA  
TATTGGTTTAGATACTTACCTAAATATTACTAGTTAAATTCAAAGTAAAT  
GAGTCTGTATCTTTAAACTACTTGGCAGTAATAATTTTAAAAGTAGAT  
TTTTATTGCTTTTCTTGAACATACTAGTGTTCATACAACACAGGTAGTTT  
TATTTGTGCCTGGAATTAAGGAGTGAGACACATTTGTAAAATGTTCAAA  
TCAACGCCTGTCCATTTTAAATCTCACAAGTTTTTCTTCATGATTAAAC  
ACAATTCACAAAAATAAGAAATGGTATTTGGTCATTCTCTGAGTTCAATCT  
GTGCTCTAGTAAATATAACTTGTGAGGAAAAAGTAAAAAGGTCAAGAGTC  
TAATTCATTTTCAGTTTTTAAACTATATTTTAAAAAAGAATGATTGGG  
GTAAAAATAAAGAN

>Sequence 834

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TTCCAGGAACAAAGCCAGGGCTCTCTGGGCACCTGAGTATCCATTCTCTT  
TGTATCATCCATTCCATGTCCAGAACACATTCACATCCATGCTTATAGTT  
CCTCATTGCCTGAAGCCTGCTGGGTGGGGCATAGTATGAATACTTGCCCT  
CATCATCCCCATTTACAGATGCATAAACAGAGGCCAGTCAGTATGCCTG  
CAGACTGTGGATAGAGCCGAAGCCTCAGGTAGGCAGCTTGATCCAGC  
TGTGAGTCCAGCTAGGGGAAGTGAAGTCAAGCTCCATCACTCCGTGTCTC  
GGTTTTCTGACCTCTCAGGTGGGTATCATGATGCTGGCTTTGGAGGGTAG  
CTGTGAGTATTAATAACGCTGATGCAGGGCAGGTGAGCCCCCAAATTG  
GGTTTAGCTTGGCAGAGTCTTGGCTTTGCCTAGGAAATAATTCAAGGG  
CTTCAAGGGCTAGCCAGTGGTGTAGCAACTTTCTTGAAGTGCCAGTGT

>Sequence 835

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAATTCAATGGAAG  
AAAAGTCCAGCTTAATAACTTTAATGGAGAAAGAAGGAAGCAGTATAAAT  
TTGTGGAGACTCCAATCACATGTCTCCACTCTGCTACCCTGGGCCCAA  
ATAAGGGAGGAGACACTCAGAGCCAGGTGTTTCCCTTGATGGGAATGTGA



Table 2

TCAGGTGCGACATGGGCTCACAGCCTCACTGAGGCTGGATCTTTTTTTC  
TGTTCCCTCTGAGTCATGGAAGTGTTCAAAAGGAATCATGAGGGTATTTTC  
GTTACTTTACTTACTTTACCCCATCACAAATCAGTGCACTTTCCTAGAAGG  
GAATTTTATTTTGATTATCGGAAATTTACAGCTTCTCCTTCTGCAACTTT  
AATTTTCTTTCTCCTGTTCTTACTATTTTTCTTATTACAAATCTCTTTCT  
GGGTGTGTTGTGGGAATTCCTTAATCTATTTTCCCGTGGCCTCTCAATCC  
TCTTAATTAATTATGTTCCATTGTTTCGATCGTCTGGGTGGCATTGTGT  
GTTTTTACCTGGCCCCGAGGCGCGCCTTCAAAAGGCCGAATTCCACACAC  
ACTGGCTGGACTCTTATATATGTTACCAATCTCGATACCTNGCT

>Sequence 836

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TACGTGGGATCTGCCCAAAGTATTATTGCAAAAGTATCATTTTCAGTTT  
TAATTTTAGGGGGAGCAGGGTAGGCTGGGGTGACACACAAATCTAGG  
CAGGCAGAGAGCTTGCTTTCTCAGCTTCTTACCCTTAGTAAGACCACTT  
TAGTAGGACACTTAAGTATTTCAAGTCAGCGGATTTGAATCTGACTTCTTG  
GATGCATCTGTATCAAAACATACCATTAGATGTGTTACAGAACTGAGCAG  
CATATCATTAGATGTGTTACAGAACTGAGTCCTACTTACAATAATTAATT  
TAATTTCAATAGCGATCCCCACCATTATGTCCTAGGCATCTACACAATT  
GGTCTCTGAGCGAAAACACAGCCTTATCTGCAATAAAAGCCTCTGCTNTG  
CTTTGGCATGTTTTTACAATCCCGCGC

>Sequence 837

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AGTGGAGATACCCTTTTCTAGCCAGAGTTGGCAAAAGTAGCAATAGCATG  
CATTTGGCTTGTTTGAGAGGCCCTGGGTGAGCCTTTGTTGCATAAAGTAGG  
AGGTCGTGTTATTGTCTTGGTAGCATATGCCTTCATTATAAGTTTGCCTCT  
TTGAAAGAATATTCAAAGACCAACACAAAAGAGAACATTTCCAGATCCAA  
GAGAGTGTATGTAGAAACAGTGACAAGTTAGAAAATCACTTAGGTATCA  
GATAGCAGCCACAAAATATGTTCTGAGGAAAAATTCATAGCAATTTATAA  
CAGCTGAGAAAAAGAGGGAGGATGCGGGAAGGTAGATTTTGTGAGAACTT  
ACTAGACTAAGGATNTATTGCATATTTTTTACTAATTAATGTTGGGGAT  
GTCAGACGTGGTTGAAAAATAATTAAGTCTGGTTAAATAAGGCTTTTTT  
ACCCTAGCTTACCTA

>Sequence 838

ACTACAAAAATAATGAAGCCAGCTAATTACCATCAGGTTACAACCTTTACA  
AAGAAGTGAAGCAGCAAAGAGCTGAAGCAGAAATGACATAGGAAAACAGC  
AGCAAAGTCCTTGAGTCCCAACAGTCCACCTCAAAGACAAACATACTAAA  
GAACAAAGGCCCTAATCCACCTCCTCACCCTCGTACTTTNTTTTTTTTT  
TTTTTTTTTTTCCAGTTTCTGTTTCAAATTCTTTATTATACATCATGGT  
TGACAATTTGAGGCTGGTTAAATACAATTGGTTTCAAATCTCTTTGA  
ATATTTTCTGGCTTATTACATGCAAATGACCATGAAAATATTTGGCATT  
TAAATTTCTGAAACTCTGAATAGGCACTTGCATGAAGGAAAACATTACCA  
TTCATAGATATCCACATGTAGAACAGATGCTCCAGCACATGGTGGTACC

>Sequence 839

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CGGTTTGAATTTTCTAAGTCAGGGTGGGGTGGGGGACTGTGCACGAGT  
CATGTGCAGACTGGAACCCATCTCCCCCTCGGTCTGCAAGTTAAACAAT  
TGGGTTGTCCTTCTCAGCATCTGCCAATGTCTCTTACTCAATCTTGGATC  
AAAAGGGCGTTGGAGGAGGAGGCTGGGAGGGAAATCCAGACAGTTCTCCG  
CCTCTGACATCAGGTCCAGCTGTTAGCATCGTGCTGTGGGTCCCTGAACA  
AGAAGCAAAGTCAGGACTGGTTTGGCCAGGTAGGTGAGGATCCAGTGTTG  
GGTGATTCTGATCCATGCAGCCCTTAGAGGCGACACAGACGTGAACTGGA  
CATTTAGGAAGAAGAGCCGACTGCCGGGTGACCTGTCTAGTTCACATC  
CACTACCAATTTCCCTCCTCGTTCTTATTCTTAGAAATAAGACTCTGACG  
CTCTCTTTTATACAGGCTAGTCCCCTATAGGCATGTCATGGTGATTATTT  
GCAATCTCCTGACTTTCCTAAGAAGAGATCAGACTTAGCAGGGTAGTC

Table 2

C

&gt;Sequence 840

GGTACAAATAAATGTATCTTGGGTTAAGTGCTATAAAGGAAAAGAACAGG  
TTCAATGGAAGGAAAAATTAGAAATTGTTGATACATGAATGGAAGTAAATG  
ACCCGGACTTCCAACCTCTAAATCTCTGTCTCATTTCACCTCTTTGTAAAT  
AATCATTTGCTATTATGTTAAATATCACAACCTACTGTCATTTCCTGTTTAC  
CCACTACATTCTAAGCTTGGTGCTGACATCTTTGTATTATTATATAAAA  
TTCTCAAAATTACTCTGCCCCGTTAGGCTTTCTTATCACTTATTTCAAATG  
CAAAAATAAGGTCCAGGGAAGATAATTATGTAACCTGTTTCATGATTGGAG  
AGCTAATAAGTGTCAGAAATGAATTGAACCAAGTTGGTGTGACAAAGCC  
TCTGTTTTAAGCAAAAGGGAAAAAAATTCTCATTAACCTCCAAGGATTAT  
CATTAGGAGTCCAACAGGGTTCCCAATTTGGGAACCTACTATTTCAATTATC  
ATATGGCAAATGGTCCACTATGTTAGATGAGAAGGCAAAAAAAAAAAAAA  
AAAAAAGG

&gt;Sequence 841

GGTACACTTAAAAATGTATGTGCTGTTCTAATGCTACTTATTATTATTC  
CTTCCTTTGTAGAATGTATCNCCTAAAGTGTTTAACTCCTGACTATAAC  
AATTATTTGTTAACTATTAAAGGGGTAATTATACTCTAAGCTTCCAGTTT  
TCAGTTAAACAACAAAATGATTAATATGCCTATACAGAACTTTCTCCAGCA  
CTTGGTAAGTATTTTTTAAAGTGAAGTCTATTCAGACTGCAACCAAGTAA  
CTATTTATGCTTATAATTTTTCTCACGATGGATTCTGTTCTTTGTTGC  
ATTGTTTGTGTTTATTTTATGTGATCTTTTTTAGCTACAAGGTGGGAAAA  
TGACAGTGGTTTAGAGATAAGAAGCACATGAATGGAAAGTAAATATGTGG  
AGATTTTTGGCCACTCTTGTAACCTACTATCTGAAGTAGTTTTAAATATTT  
TTTAGTTGGTAAGAGGATGTACCTGGCCGGGGCGGGCGCTCGAAAGGG

&gt;Sequence 842

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AGTGATCCTCCACCACAGCTTCCAAATAGCTGGGACCACAGGTGCAAGC  
CACCACACTTATTAATGTAGATTTCTTTGTAGATGTAGATTTCTTTTAC  
AAAGTGACAGCTTTTCAGAGCTAGTCCTATGTCTGCAGTTTCTCAGAATA  
ACCAGCTCAAAATATGCCAGAGAAGTATATTTGGGGTGGCATATTCTAG  
TCTCCTCCAGTCATATTTTGGGGTGGTGTGCTCTGAGCCCCAACAAAGATA  
GGGTTCATTTTGAAAATTGCTCTTCCAGTCCCACTGTTTCATCTCATAAG  
CCCAGGAATCACCACCTGTTGATTTCTTAGGCATCTTCTTGCTCAGGGGA  
GTAGATGTTTGGTGGACTAGAAATGCAGGGAGGAGAAAAGGAAGGCTTGG  
TGATGTCAAGGATTTTTTAAAGCCAACTATCTCACTGTGGTCTCTTAATA  
GTCACCTCTGGGCTGCTCATTTTCATGAAGCTTAAAGCTGATAACTTGGG  
GGACAAAAGGGTTTGGGTAACAAATTAATTTTTGTCTCCGGAAATACCAA  
CCATACTTTCTGGCTGGCTTGAGGAAAATTTAACTGGGGATTAATTCTG  
GCTAATTGGTTGGGAGCCCCCANTAGATTTTACTACAATAAAGAGGTCTG  
TCCCGGGGGCGCTAAAAG

&gt;Sequence 843

GGTACTTTTTTTTTTTTTTTTTTGCCTATTAATTGATTAGGAAAAATAG  
GTAGACCCTGAGTGAAAGTAGAAAAGAACCATTCTGGTAAAAATTTCTGAA  
AGTAGAAAAGAACCCTTTAGCTTTAAAGGTATGTCTTAATAGAGCAGTGCT  
AAGACAGGTGGTTAGGTATGTGAATGCATGCCACTTAGAAAAGAATATGA  
AGGAGAAGGGACCAAGAAGGCAGATACATTGCCCTGATAAAGAAGTCAT  
TTTTCTCTACCTTTACATAAATATCAGCCACTAAAAATCTAGGAGCACA  
AATAATGAAAGCGAACCCCTGTTCTGCTCTGTTTGTGGAAGGCTCATTAAT  
ACCTGCCCCGGGGCGGGCGGTGCAAGGG

&gt;Sequence 844

ACAAGAGAACGGACGGCACTTACTGAGCCCATCGCAAATGTCAGGCTCTG  
TGCTATACTTACATATCCCATAATCTTCAAGACCCCTCAAGACCCACAA  
AGTAACACAAAGCAGGAACTAACTCAGATTTACTTGCCAAAGGTCAAC  
AGTTAATACATGGTGAATCAGGACTCAAAATCAGGCCTGTGTGACTCCA  
AAGTCCAGTGCTCTCTCCACTTTACCAGGTAACCTTCATAATACCGGATT

Table 2

GGAAATCAAACCTGTCACTTACTTTCTATGTCCCTGAGTGAGTCACAACT  
TCTCTCAACCAGCTTTTTTCATGTACCTTGGGCGCGACCACGCTA

>Sequence 845

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TGTGGCCAAATACATGAGGATCCTTATTGGCTCCTTCTACTAGCAACAGA  
TGGTTTAGAGAACAGTGTATCACAGAGAAATGGGGATCACTATTATAGGC  
AGATTGAATAATAAATGTTCACTCTACTACTCAATAAATATTGTTGAAC  
AAATCAAAGCTGATCCCTTTTTTCAAATTTTTTAATGTGACTCTTAGGGG  
ATGGTGGATCCAGGAGAGAAAGATTAGTGCCACACTGAAAAGAGAATTTGG  
TGAGGAAGCTCTCAACTCCTTACAGAAAACCAGTGCTGAGAAGAGAGAAA  
TAGAGGAAAAGTTGCACAACTCTTCAACCAAGACCACCTAGTGATATAT  
AAGGGATATGTTGATGATCCTCGAAACACTGATAATGCCTGGATGGAAAC  
AGAAGCTGGGAACTACCATGACGAAACAGGTGAGATAATGGATAATCTTA  
TGCTAGAAGCTGGAAAAGATGCTGGAAAAGGTGAAATGGGTGGACATCAA  
TGATTAACCGGAACCTTTATTGCCAGTCACTCTCAATTCAATAAACTTGT  
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CTTGCCTGGAACCTGATGGTCTCCGTGTAAGCCAAAGCCCCCGAAGAGCC  
TATTCTTGAAAAAAGG

>Sequence 846

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ATAAAATGTAAGTTTAAATATGTGATGGCTAAACTCCTAAGGGGATAAGG  
AGGCGCTAGGAGAATAGGCAGGTTGGAAAAGGGTAGTCGGGACTTGTCCA  
GATTCTTGTGTGGTAGTCTGGGTAGTCTGTATATTTACCATATGGGCTAC  
AAGACA  
CACACACCCTTGTGAGCATTATTAATTTCGAGTTGATGGTGCATAGTTT  
GCGGAGTGGGTAAAGGATATGTTACTTTTGTAAGTACCTCGGCCGCGACC  
ACACCTAAGGGC

>Sequence 847

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TAGCCTTTTGTGTTTTGTTTTGGTTGGCAGTAACCGATTTTAATGACTAG  
CTTTTAAAAATACAGTACTGATCATTCTATTTCCCCCTCTATTGATCCCC  
ACCTCCAAATATCTCATCAACAACCCACTAATCACCACCCAACAATGACT  
AATCAAATAACCTCTAAACAAATGATAACCATAACAACTAAAGGAC  
GAACCTGATCTCCTATATACTAGGATCCTTAATCATTTTTATTGCCCAACT  
AAACCTCTATGGACTTCATGGCTTATTTATTTACACCATCCACCCCACT  
ATTTATTAACCCCTAACCATGGTCCATTCCCCTTATAAATCGGTCTGCAG  
AAATATTTTGGTTTTCCGTTCTAATATTAATAAATTCCTAATCCCAT  
TCATAATAATAAGGTAAATCTTCATCTCTTAAACCCCTCTGGTTGTTTA  
TAATTGAGAACTATACTTCTACTTATTTAACCATAAATCCTTGTCGTAC  
TTGCCCGTGTCTGCTACTTTTAAAGGGCTAATTTCAACACTACTTGGCTGA  
CCTATCCTTGTGAAACCGAGACTTGTGTTACCATACTTTGGCGTTAATAA  
TTGGTATAAACTGATTTCTTTGTGAATATTGTAATCACCATAATAATTC  
CAAAAATACTATCAAGCCTGGAATCTATAAGTTATAAATCACTGTGGTGT  
T

>Sequence 378

TCTTTCCCTCATATCTATGTTATTTAATATTAATTTCTTTTAATTGTA  
TTTATTTATTTATGTATTAATTATATCATTTCTATTCTTAATATATAAT  
TCANNCCCNACATGGTTTATCTCTGAGGCGGCTTCCGCCCGGGCAGGTA  
CCAGGTGGTGAACCAACTGCTGAACGCACAGCCTACCTCCTGTATTAGC  
GCCGAGTGGACCTGCTGTAAACCCGTGTGTGCGCTGTGTGTGCGCCAGTG  
CCCGCTTTGTAGGACACCACCTTACACTCACTTCCCGCCTCTCTTTAGTG  
GCTCTTTAGAGAGAACTCTTTCTCCCTTTGCAAAAATGGGGCTTAGAAT  
TGAAACAGGAGTATCGCCTTTGTGGGTTTCGATGCAACAAACACGAGCTT  
TCTTGTGACTTCTAACTTTTCAAATCAAATCAATTTGGTTGAAACAGAC  
TGTTGCTTGATTTTAGAAAATACACAAAACCCATATTTCTGAAATAATG

Table 2

CTGATTCTGAGATAAGAAAGTGGATTTGATCCCCAGTCTCATTGCTTAG  
TAGAATAAATCCTGCACCAGCAACAACACTTGTAATTTGTGAAAATGAA  
TTTTAATTTTTCCTTTAAAAAAGAAATTTTTTAAACCATCACACTTTTTT  
TCCCTACCCTTTAGATTTTGATAAATGATAAAAATGAGCCCATTATCAAA  
AGAAAAACTTGTTTTTACTCCAAAAATGGAATAATCTAAATTTCAAATAAT  
GTACCCTGG

>Sequence 379

CGCTGTCTCCATATGTGCTCATGTGTGGTATCTTACGTTACTTGTTAGTA  
TATAGCTCACTTTTCGCGCTCGGTAGTATGGTATCGTTTGGTCAACTTTTA  
TTCTCTTGATTTGTATATTATCNANTNNNCNNGGGGATGGTGTCATAGAG  
GCGGCTACCCGAGGNGCCGGCCGAGGGACTGCTAGCCAGCCAATAAAATAT  
AAACTCCATTTGTCTTAGTTATATAGAAGTGTGTTCCAGCTTAGAAAAA  
GTCAAACCAATGACTTGTAGAACAATCTACTCTCATTTTTTATTACAGCT  
CTAGAACATGGAAGCTTTAAAAGTGAATTGGCTAAATAGGCAAGACCTTC  
TGAAAGTTAACATCTTAATGATTAAAAACAGTAAGTACGCACAACCGAAG  
CGTAGAGTCACACTTGAACAAAAGGTTACAATATTGTAATGGGCTCTGT  
CCGGTTCTGCTTGCCAGCTGGACCATCTATTTTCATCCTCCTCCTCTGAG  
CTGTCAATTAATTGCTCATAACAGTAGAGATCAGTTGTCTCTGGTTGCAA  
ATCTAACATATATTTATGCAATGTAGGGTGTCTCCATGCATGATTACAG  
CTGGGTTTCTCTACGTGTTCTTGATGATCTGCAACAAGACATACCTCGAC  
CGGGCCACCGGCCCTTATATTATGGAATCTTTGCTTTTTGGCCAGAGGT  
CTTTGCTTTTTTCAGGACACAAGGGCTTTTGACAGGTAATACACCTAACG  
TTGCAGTGACGGTGGT

>Sequence 380

TCGTTCTTTTTTATCTTCATTAAGTTTTTCTTTTATACTAGCTATTGTA  
ATATTTTATTTATTGTCTTATAAATTATAATTTATTTACTATTANN  
ATNNNTNTTGTGANATTGTCTACTGAGGCGGGCTCCGAGGTACGTTAGCT  
CATTTTCCCTTAAGCGGGTGTGACGTCGTTGAAATTGCAACGCTCAAAC  
TTCCAACACTTGGTATACACTTGTAAACCCAGCTTTGTTAATGAGACACGC  
ATCAAAATCAGATGAACAATTGACGGCTGTTTTGCAGTCAGCAGTTGGGT  
TAGGACAGTTGTAGCACTGCAGGCTATGTCCTGAATGGCAGAATGACAGT  
TCGGACGAGCTAGTAATCTGAACAGGACAGAACTCTCTTGTATTCCCTA  
TTGTGATTGTTACAGAACTACTTGTGTAGTAGGTTTTAACTACTACACC  
AATTGGTGGCTAAAGACTGTCGTCTCCTATTTATCCTTTTTTAGCCTCGA  
GCCCGTTTATTCGCCGCTTCTTGCTCGGGCTGGCCGTTCTAGAACTTAG  
TGGAATTCCTTGGGTCTGCTTGAATTTTATTAACAAGGCTTATTCGATAC  
CCAGTTCAACTTTTGGGGGGGGCTCGGGCACCCAGCTTTTTGTAACTT  
TAACAGGGGTTAATTAGCTCTGCTTGTGTAATTAATGTTTATAGAAT  
GTACCCTGGGTGAAAATGTTATTCTTTTACAATTTACATTACAACATACG  
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>Sequence 381

TTAGATGGGTCACCGCGGTGGCGGCCGAGGTACACCATGTGAAGACTGGA  
CTTAAACAGCTACACCACAGATGCCGAGAGAGAGGCTGGAACATAGCCT  
TCCCTTTGGAGGTAGCCTGGCCCGGTGGGCACTGTGATCTCAGACTTCCA  
GCCTTCAGAACTGTGAGACAATATTTTATTGTTTAAAGCCACTTATTTTTT  
GGTACCTGCCCCG

>Sequence 382

CCTCTCCTCTCCTTACTTTATATTATCATTACTCTATTATTATATCTTTA  
TACTCTTTATATATTTATTTGTATTATTTCTTATAATCTTTTTTACTGC  
TATTTTATTACNANAGGGTTGTGCTCGTAGCTCNCTTCGCGGNGGCGGC  
CGAGGTACTTTTTTTTTTGTGTGTTTTTTTTTTTGAGACGGAGTTTCACTCT  
TGTGGCCCAGGCTGGAGTGCAACGACACGATCTCAGCTCACTGCAGGGTT  
TGCCTCCTAGGTTCAAGCTATTCTCCCTCCTCAGCCTCCCAAGTAGCTGG  
GATTACAGGCATGCACCACACGCCCCGCAATGTTTTTTTTGGATGTTTA  
GTAGACGTGGAGTTTCTCCATGTTGGCCAGGCTGGTCTCAAACTCCTGAC  
CTTAGGGGATCCACCTGTCTCAGCCTCCCAAAGTGCTGGGATTATAGGCA

Table 2

TGAGCCATAACGCCCCGGCGGCAATAATTGTTAACAGACTACATGAGTAAT  
TGCATAAATGGACGATGTCTTTCTCTACTTTTAATTTCCAATGACTTCA  
TTATTTATAAAATGATCTCTTTTAAATGATCAGTTCCTACATTTTTATT  
CCTTAGAAGCCTCTTTCCCTTTTTTTTTTCATCTGTCCCAAATTTTGA  
CACCTTCTTTAATTCAGTTATTAAGCCACTTTTCTGAGTTTTTTTCATA  
ATAACACCCTTTTACGGACCATGTTAATN

>Sequence 383

ACCCCTCTCTCTGTTCTTTATTAATTCATGCTAAATTTACTTATCGT  
GTACATAGGTCTTAATCTAAATTACTACGTCGATCCCCACATATCTAATT  
CTCCNNNNNNNAAGGGATGTGCTCCTCGCGGGCTCCGAGTACTCCAGNC  
CCCANATTCGGGTGTGGGACACGGCTCTCCATTCTTCTTCTGGCTTTAC  
AGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGAGCTTCTGAGGATGA  
TCGATAAATAAACACACCTCCTCTTAACCATCCTTGGGCTTCATGGGGGT  
GGCATTGAGGATCCCTACAACAGGCCCTGGTGCCGCTTCCAAAGCGCGT  
TTGGAACCTTCTCCAAATAAGAACAAGGACACACATTGGTGTGAGGGTAC  
GAAGATCTTCAGTTTCCATATGCTCAAAGGTTTTTCCACTATTCACACT  
CTTGTTGGCGGTAACCTTTTTTCAATATTAACCCCAAAATGTCACCCCAAT  
CCTATTTCTTCCAAGCTTCTTTCTGGCCCATCTTTTTCTTGAATCTG  
AGACAAGTCTGATCCAAGTTTTCGGCCGGTCTAAAACTAATGGGGACCC  
CCCGGGGCTGGAAGGAATTTCCAATATCAAACCTTTATCTGATACCCGTCC  
AACCTCCAAGGGGGGGGGCCCGGTACCCCAACTTTTTGTCCCTTTTATG  
AAGGGGTAATTTGCGCGGCTTGCCGTAATAATGGGCATAGCTGGGTCCTT  
TGTGAAAATTCTG

>Sequence 384

AGACTGCAGGAGATGTGGGCGGTGCCAAAGAGATGGATGAGACTGTTGCT  
GAGTTCATCAAGAGGACCATCTTGAAAATCCCCATGAATGAAGTACAAC  
AATCCTGAAGGCCTGGGATTTTTTGTCTGAAAATCAACTGCAGACTGTAA  
ATTTCCGACAGAGAAAGGAATCTGTAGTTCAGCACTTGATCCATCTGTGT  
GAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTTAGACATCATTTA  
TATGCAATTTTCATCAGCACAGAAAGTTTTGGGATGTTTTTCAGATGAGTA  
AAGGACCAGGTGAAGATGTTGACCTTTTTGATATGAAACAATTTAAAAAT  
TCGTTCAAGAAAATTTCTTCAGAGAGCATTAAAAAATGTGACAGTCAGCTT  
CAGAGAAACTGAGGAGAATGCAGTCTGGATTTCCAATTGGCTGGGGAACA  
CAGTACCCT

>Sequence 385

TACGCGTACCTCACCGTGTCTGTCTATATACTTGTACTATCTANTTA  
CTAACTAGTCTCGTCTTCTANCACTCTCTCTTCAACTACTACTTATCT  
ATTATCTCGTATTATATATCTCATATTATNGATACTATCATTATAATTT  
AATATAANAAGTATCCGTTGTGCTTCTACGCCGGCGTGCCGGNAGCAGC  
CGAGGTACTCCGTCTCAGAGGAGGGATGCAAATCTTCGTGAAGACACTCA  
CTGGCAAGACCATCACCTTGAGGTGAGCCAGTGACACTATCGAGAAC  
GTCAAAGCAAAGATCCAAGACAAGGAAGGCATTCTCTCTGACCAGCAGAG  
GTTGATCTTTGCCGGAAGCAGCTGGAAGATGGGCGCACCTGTCTGACT  
ACAACATCCAGAAAGAGTCTACCCTGCACCTGGTGTCTCCGTCTCAGAGGT  
GGGATGCAGATCTTTGTGAAGACCCTGACTGGTAAGA

>Sequence 386

CAGTGTGGGCCCTTTTGAGGTGCGGGTGGCCCGGGCAGGTACTCCCTGAT  
AAAGGGGAATTTCCATGCCGTCTACAGGGATGACCTGAAGAAATTGCTAG  
AGACCGAGTGTCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTGGTTC  
AAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTCTC  
ATTCTGGTGATAAAGATGGGCGTGGCAGCCCAAAAAAAGCCATGAAGA  
AAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCTGGA  
CATGTACTCTCAGAATGTTTGTGATATGCTTCTTGCAATGCATATTTTTT  
AATCTCAAACGTTTCAATAAAACCATTTTTTTCAGATATAAAGAGAATTACT  
TCAAATCGAGTAATTCAGAAAACTCAAGATTTAAGTTAAAAAGTGTTT  
GGACTTGGGAACAGGACTTTATACCTCTTTTACTGTAACAAGTACCT

Table 2

## &gt;Sequence 387

AACGAATGTGTCCGTAATTGATGTCCACTTCNCACCGN  
CCAGCCGANNTTGATTCTTCAGTCCTNAGCGATGGAGCCCAGGGTCCCTT  
GTTATTGTCCCCCTTCTCTCTCAAATGCTTGGCTTGTINTTCAAGAGAAC  
CTGTCTCGGTGGTCATTGCTCCATCGATTGGATCCAGTCCTTCTTCAAAN  
CATTGTTCAAGGCACCTTTAANGCTAGCCTGAAANCGCTTGAATCCCTTGC  
TAATACTATTCCAGTGTGATCTGAGAGGGTGGTACCCTCTNGCCCGCTC  
TANGAATAACNGTGGATCCCCGCCNGAGGCTGCATTGGAATTCNGAATATC  
NANAGCTTATTNGAGTACCCCGGCNGACACCTCGACGGGNGCGGGCCTCC  
NGGTACTCCANGCTTATTNGTTACACCTTATAAGTNGACTGAGTTTAACT  
TNGTCGCACCNATAGGCGNGTCANTACAATAGTGTCAATACGGCTTGTNT  
TGCCTCNGTTGTGAGAAGTTNGATTATCCTGCGTCAACTAATTGCCACA  
ACATACAATACCGACGCCCCGCGCAGGCTATAANANGTCGTTAATAGCTC  
TGGTTGCTNGCGTNATCTCGAGGTGAGGCTAAACCTCAACAACCTTAAAT  
TGCGGNTCGCGCGCTCAACTGGGCGTGCTCTAACACATGACAGGAGAAAC  
CCTCGTCGGTCGCCACACTTGGCGATTTAATTGAGATTCNGGCCCAACTG  
CTCGCCGGTGGAGAGAGCGCGGTTNACACTATTTAGAGGCGCTTAGTTC  
TCGCTTTCCTTCGACTCAATNTACCTTCCCTTGCGCTTCAGGGCGTATCA  
CGCTTCGCGGCCAAGACCGTAATCATACTCTCATCTCAAAAGGGCGGGTG  
ATACCGCGTTATTTCAACANTATATCAGTGGGATAACCGCAAGTAAATAA  
CACTTTGAGCACAAACAGGCCCGCACAAAGGCCCATACCCGGGAAAAGCGG  
CCCCTCCTTGTCTTGTCTCTAAAGGTTGCGCCCCCTCTGCGCACGAATT  
AAAATATTCGCACCTCTAAGTACAAGGCG

## &gt;Sequence 388

CCGCGCTTTACACATTGAGTGCTCCTTTCCCNCCAGNCGAGNA  
CCCCAGGGAGAGATCAAAAATCATCACCACCAATAATATATCATGGACTA  
ACCCCTAAACCTTCTGCTTAATGAATTAACATAAATAACGGGGCAAAGA  
GAGCCACAGCTAATACCCCTAAACCACACTAGCTACCTAAGAACAGTAA  
AAGAGCACACTCTTCTATGTAGCAAACTAATGCCAAGACTTATATCTAG  
AATCGACAAACCTACCTAGCCTGGTGATAGCTGTCTGTCCAAGAAAGAAT  
CTTACTTCAACTTTAAATTTGCCACAGAACCCCTTTAAATTCCTCTCTAA  
AATTAAGTATAGTCCAAAGACGAACAGCTCTTGCACACTACGAAAAAA  
CCTTGTTAAGAAGAGTAAAAAATTTAACACCCCATAGTTTGGCCTAAAC  
GCAGTCACTCATTTAACAAGCTGTTAAACCTAAACACCCACTTACCTAA  
AACAATCCCCAACCATATAACTGAACTTACTCACACCCAACATGGACCAG  
ATCTATTACCCCTAAAGAAAAAACTAATGCTAAGTATAAAGTAAACATGA  
AAACATTTCTCCTCCTCATAAGCCTGACTTCAGATTCAAACACCTGAACT  
GTCTTTTAACACCCCAATATCTTCCATCAACCACCAGGTCTTTATTACCC  
TACTGTCAACCCAACACAGCATGCTTCATAAGAAAGGTTAAAAAAAAGTT  
AAGGAACACTGCAAATCTTAACCCCATTTTACCCAAACACTTACCTTT  
ACCTTACCCAGTATTAGAAAGATCCTTCTTTCCCAAGAAAAATGTTTAA  
GGGCCCTTAAAAACAACCTGAATCCCCCGGCTTCAATAATTCAATACC

## &gt;Sequence 389

CGAGACTAGTGGCGCTCTTGGAGGTGCGGGTTGCTCACGCCTGTAATCTC  
AGCACTTTGGGAGGCTGAAGCAGGCGGATCACGAGGTCAGGAGTTTCAGA  
CCACCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAGATACAAAAG  
TGGGTGTGGTGCGGGCACCTGTAATCCCAGCTACTTGGGAGGCTGAGGA  
GAAGAATCGTTTGAACCTGGAGGCAGAGGTTGCAGCGAGCCAAGATCACG  
CCATTGCACTCCAGCCTGGGTGACAGGGCAAGACTCTGTCTCCAAAAAAA  
AAGAAAAAAGGAAAAAAGCCTTCTTGATGCTGTTCCTCAATTTCTCCACT  
AAAACGCCTGCTTTTCTTAACTCCACACCGAACCAACCTGAAATATTTG  
GCCAGAATGCCAACAGAATTGAAGAAAAGATGCTTTACAAAAATAACA  
ATATAAAAGCAAATTATATTATCCCTTTTATCTCCATTCTTACATTAAAA  
AAAAAAAAT

## &gt;Sequence 390

CCCAATCTTCTCCTCGCGAACGCGATCTCTCTGTACTTTATTTAATTTT

Table 2

TCGCTTACGGTGCGATATTT

&gt;Sequence 391

TGTNTTGTCTCTCTCCGAGGGCGGCCGAGGTACGCGGGATGGGATTTCTG  
ACCATTTGCCCTGCCTCTTGCAAAATAGGTCTAATGGCAGGATGGTGTCA  
TAATTAAGGCTACCAAGACTGCCCATTTGTTCCAGGCTGGGCAGTTCATAA  
TGGGGGCAGACAATAGTGCAAAAAATTTTACATTTTATCTTTAGAGTGT  
CAGGGTCAAATTTGATTTCCATGGTTGAGGATGTAGCCAAGTGTGGAATCA  
GGTGGAATAGGTGGAGAGTTGCCCATAGTGGTTTGGAAAAGAGAAGAGGA  
CTTTGAAAAGTGGAGGGCTCATTAGGTGACCCAAATTTTACCTGGGGCAT  
CCCCCTTTAGGGCCCCAACTTAGTCTGTCAGACATCTCTGACCTTAGAT  
GGGTGCTGGCACCCTTTGGAATGGTTCCCTCCATCACTGAGGACCTGAC  
TTAAAGTTTTTCTATCTCACTTAAAACAACCCTTTAAACGCTCTCAACTTA  
GGCAATAATAAATTCCTTTTCATGAATTCCTTCACCACCATGCACCACA  
CAGACCACATGCCCCGACCCTCTGACTTGTGTAACCTTTTGTGCATAGCT  
AGGTGGGGTTTCTGGCCT

&gt;Sequence 392

CTTATATTGCCTTATATTTTATTAATACTATATTTTTCTCACCGTTTTTT  
ATCCATAAATTTTCTTGTTATATATGGTTTTGAACACTCATATAATTTTA  
TTATNTTANTATTATGTTTGTAGCGATTCACTCT

&gt;Sequence 393

CCGGGCAGGTACAGGACACAGGCACTCCTTTGTCTGGTAGAGAGGAGGAG  
GGGAAATGGAGCTATTCCAGGATACAAGGGATGCCACTGAGGGATGCATA  
AGTCCCCTGCCTCCCTTGTCTCAACATGTTCTCCTCTGCCAGCCCAGTCA  
GCTTGGGGAGCTAGGTATCAGAAACCTGAAGGATCCAGCCCGCTTTGTCC  
TACTAGTGTCTATAAGTCTCTGTCTGAGATCCTGGGGCTCCTCCTATTT  
CTAGAAGGGATGAGGTGCCATCAAAAATAAAGTGGCTGGTGTAACAGTTT  
AGAGAAGGAAGTCACACCTGTAGCCTGGCTGGCAGGCAGGTGGACATGAG  
GCTGAGAAGGGAAGCCAGATGTCAGAACATACTAGGCTAGCATGCCTGCT

&gt;Sequence 394

GGTGCCTTACCGGGTGGCGGCCGAGGTACCAGGCTGGCGACAGGTGCTA  
CCAGGAGTGGGCTGAGGGGAGAAAACTATCTCCCACTCTTTTGGCCCA  
GCAATGTCAACGACTTCCACATTCCCTGGCCCACTGGCTGAGCAACCCCA  
GGTTCGGCTCTGTATAAGGACCCTCCCCTCCCAACCCCAACCCAGAGTGC  
AGTGCAAAATCAACCAACAATTTACTGGTGAATGGCAATCAAAAGGAAACA  
GTTAAACACCAAAACAATTTCTTAAAGCCAAAAATATTTTTCATGGAGTT  
GAACATTTTTCGAGTGTGTTTTTTCAAGTGTAAGCAGTGACATTTTG  
TTCAAACAGAAGCAGCATCTAGGAATTCTGGCACTTGGGTTCTAGGGGGT  
TACAGGTATGCATCATGGATTCTTCTCCCTCGTATTTAAAAAGA

&gt;Sequence 395

GGCGACCCTTATCTGGTGGCGGCCGAGTACTTCATTTACACTTAAGCTAG  
AGAGTTAGGATCTTAATTTATTTAAAGCCATAGATTAGTTTAGCTTTAA  
CCTAGACAGAAAGTGAAAAGCATTTTACAAGTAGAAGAGGCAATGAGAAA  
TAAGGCAACAGATAATACGTCAAAGCTGGAACAAGGGCAGAATCAGAACG  
TGTCTGGCTATCAGCTTTGTTTTTGACTACTAAGGCCAACCTTTTTATT  
CTCTGGATGGTCTGCAGACCAAGTTCAGAAATTTAGGCAAAAGGATTTCCA  
AATGGATCCCTATACATTTTCAAGAGATTCAGGTTGAGGAAGAAGCCACA  
GAGGGCTTGTGATGAACCCAAAGGAATCTTTAAAGAAAGGGGTTCTCAAA  
ATGCATTGGCCAGGTAGATTTGGTTAACTTGGCAGGGAAAACTTGTCTG  
GGGAGC

&gt;Sequence 396

TACGGAGCCCGGGGAGCCATAAAAAAGTGTTAAAGGCCTGGGGGGTGCCC  
TTAATGGAGTGGAGGCCTAAACCTCCACAATTTAAATTGGCGTTTTGCGG  
CTCAACTGGCCNCGGCTTTTTCCAGTACGGGGGAAAAACCTGGTCCGTG

&gt;Sequence 397

CTCTTAGTGGAGGGGTTAAATTGGCGCCGCCTTGGGCGTAAATCAATGGG  
TCCAATAGCCTGGTTTTCCCTGTGGTGAAAAATTGGTTTATCCCGCCTCA

Table 2

CAAATTTGCCACCACAAACCATTACCGAGGCCCGGGGAGGCATTAAGG  
TGTTAAAAGCCCTGGGGGGTGCCCTAAATGGAGGTGGAGCCTAAACCTG  
CACCATTTAAATTTGCCGTTTTGGCGGCTTCAACTGGCCCCGCTTTTC  
CCAGGTCGGGGAAAAAACCTGGTCGGTG

>Sequence 398

GGGACCACTCACCGGGCGGCGGCCGAGGTACAAAATTTAGAGGTTTCCC  
TTTATCAACAAGAGACCCAGGTGCCAGCATGTTACTACCAGATCCAGTTC  
TTCTTAGGACAGTGTGGCTCAAAGGGATGAGACCTTCCAGACACTGGTAT  
CTGAGCATCTGGGCTGCCCCGAGTTGTCAAGAAATTTCTTATCTCTGA  
AGGAGTCCAGACAGGAATGCTTCCACTGCTGGGTGGGTGCTCGCCCCCT  
TGCTCCTTAAGCGCCCGGCTACCCCCCTTGCTAGCACAGGGTGTCTTACA  
CAGTTTATGGGACTTTTCTGTGAACCTGAGGGCAAGAACCATGTCCC  
ACTCCCTGCTTGCTCCTCAAATATTTTATAGGAAAGCAGTCCACAGTCTC  
ACACAGAGGAAACATGAAGTTTAAGTTCTAGCCCTATGA

>Sequence 399

GCCTCCTTCGCCTTCTATCTCCCTTCGTATTTATTCTGAATCTGCTCAGA  
TACTCATCTCTTCTTCTTATACGTATTTCTATTATTTTCGTTTACGCTCAT  
AGTGATNACTTTTTTAATAAAATAATATATGGGTTGTGCGCGGAGGCC  
GCCGAGTACTCGGGGAGAGAGGAAAAGAACACAGATCTCGCATGGTTCAG  
ATTTTTCTTTTTAGGTCCAGGAGTAAGATATATCATACGAAAATGAAAAT  
TATAATTCCTTCTGGATTCCCTGGGAGCCACATTGTGACCCCCACTTATCC  
CACAGCGTCTCATGTCTGCCAGCAATAGCAATGAGTTACTTCTTAATCTT  
AATAATGGTCAACTTTTGCCACTACAACCTCAGGGCCCACTTAATTCATG  
GATTTCCACTTTCTCTGGAATTTTACAACAGCAGCAGCAGGCTCAAATTC  
CAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCTGGACTG  
CTCCCAAATCAGATACCCCTTAACAGGAGAGGCCAGTTTTGCCCAAAGGAG  
CCCAGGCAGGCCAAGGTGATCCCTTAACGTTTTAAAACACCCGCTAAGAC  
ACAACCAAGGCCCAATCACGTGAAGCCCTATGTATTCTCCTTCAAAAAGC  
CTAAAGAGGCAGGACAGATGTTTAAATACTATTCCAGTTACATGGGCCTA  
CCCTGGGAACCCCTCAGAAACAGGTTCCAGGGCACCTTAACCAAACAGA  
ACGGTATCTGTTTGGGGAGCCCATTCATTTTGTCTAAACG

>Sequence 400

TGTGTATTGCCGAGGTACAGACAGTGCTTGATGTTTCAAAAAATACAAT  
GCCCTGGTAATGTCTGCATTCAACAATGACGCTGGCTTTGTGGCTGCTCT  
TGATAAGGCTTGTTGGTTCGCTTCATAAAACAACAACGCGGTTACCAAGATGG  
CCCAATCATCCAGTAAATCCCCTGAGTTGCTGGCTCGATACTGTGACTCC  
TTGTTGAAGAAAGATTCCAAGAACCCAGAGGAGGCAGAACTAGAAGACAC  
ACTCAATCAAGTGATGGTTGTCTTCAAGTACCTGCCCGGGCGGTGAGCG  
GCCGCCCGGGCAGGTACGCGGGGGCTAACCAAGGCCAGTGACAGAAATGGA  
TTCGAAATACCAAGTGTGTGAAGCTGAATGATGGTCACTTCATGCCTGTCC  
TGGGATTTGGCACCTATGCGCCTGCAGAGGTTCTAAAAGTAAAGCTCTA  
GAGGCCGTCAAATTTGGCAATAGAAGCCGGGCTCCACCATATTGAGTGTGC  
CCATGTTTACAATAATGAGGAGCAGGTTGGAACCTGGCCATCCAAACCAAG  
ATTGGAAATTGGCATTTTGAAGAGGGAAGACCTTAATTTCCATTTCAGAGG  
CTTGGGCCCAAATCCATTCTACCCCGGGTGTTCACCCGCCCTTGAAGG  
GGGCCTCAAAAATATTTCAATTATGCCATG

>Sequence 401

GGTCGATCGGCGGTGGCGGCCGGTTGACCTTGTATGTACAGCAATTAG  
GAGAGTCAGAGGATGAAATAGATGAACCCGACCAATGCAAGTTAATCACCA  
CATCACTACTAGCCAGACGGGATGAACCAACAGCGTCACACAATACAGTG  
TTCCTGTTGTAAGTGTAACAACACACTGCAGCTGGTAGTAGAAGCCTCAC  
GGGATACTCTGCGACAACCTACAGCAGCTGTTTATGGACTCACTAGGATTT  
GTGTGTCCGTGGTGTGCAACTGCAAACAGTAACCTGCTATGGCCAATTG  
TGAAGAGATGGGAGTCTCCCCGTATTGCCAGGCCGGTCTCAAACCTCTG  
GGCTCAAGCAATCTTCCCGCCCCACTTCCCGAAGCCCTAGGATTACGGGA  
GTGAGCCACCGCACCCAGCCAGAAAAACGTTTCAAAATATTGGAAAACCTT



Table 2

ACTTTTTTCAATGAGCATTTTTGCATCAAGGGGTAACAGGGACATTAGGC  
TTTTTTTTCTTTAACTTCCAACAGGAAGGGTCGGAATTTATCAAGACA  
TTACATAGGAGTTAGGGCACAGCCACGGGTGGTGGTGGGGAGGACATTTT  
CCAGCCTTATTAACAGGGTTTATTATAAACAGGGTGGGCCCACTACTTGT  
CTAACCTAATTCAGGTCAAGATGTGT

>Sequence 402

GCGATTGGAGCTCCCCGCGGTGGCGGCCCGCCGCGGCAGGTACACATATCC  
TCTGTGGGAAAACTGCTCTCAGAGTGTGCACTCTCCCCACAAGCCAGCG  
CTCAAAGTGAAAAAGTATCTCAATGTCCTGAATGTGGGAAAACTTTAG  
CCGAAGTTCTTATCTTGTTCGGCATCAAAGAATCCACACAGGCGAGAAGC  
CTCACAAGTGCAGTGAGTGGGGAAGGGCTTTAGTGAGCGCTCCAACCTC  
ACTGCCACCTACGAACCTCACACAGGGGAGAGGCCCTATCAGTGTGGGCA  
ATGTGGGAAAAGCTTCAACCAGAGTTCAGCCTCATTGTCCACCAGAGGA  
CCCATACCGGGGAAAAGCCTTACCAGTGCATTGTCTGTGGAAAGAGATTC  
AACACAGTTCACAGTTCAGTGCTCACCAGGCG

>Sequence 403

AGGTACCAAATTAAGTATTAATGAGGATTGAACTGGGGCAAACAGGT  
ATTGTGAAAACAGTCAATATGTAAGCTCCTTCAAGGGAAATCAACTACTG  
TTCTCAAGATTAGAAGATGTCCCACTCTTGCATTACCTCCCTAAAGG  
AGGAAACACCCATTAAATTTCCCTTATGGAATCAATATGGAGTGGAAATA  
TGAAATGAGGAGATGTTTTAGAAAGCAGGACATATCTACCTACCATTA  
GGAATTAATATGTATCCTCTGGGCCCACTCCATTGATTCCGATCTGAGGT  
GAGGAGGACTAAAAGCAGCAGCAGGTTACAGAAAGACTGAATAAGATGAA  
AGTATGCTACGTATGTCTAGCTGGGGAAGGGGGGATCTGGAAAAA

>Sequence 404

TGGGGTGAGGTTTGATNCAGGGTCCGCCGCCCGGGCAGGTACGGACGCCC  
AGGGATCCGCGCCGAAGCTAGCACGCAGCCTACCCAACAGTCTACACAGC  
CGACCAAAGCCCCCGCGTACCCAGAGGAGTCGCTGGTGAGTGGGAGCTCA  
ACCCTGTTCAGTGCTCTGCTCATCAAGTGTCTGGAGAAGGAGGTTGCGGC  
ATTGTGCAGATACACACCCCGCAGGAACATCCCTCCTTATTTGTGGCTT  
TGGTGCCACAGGAAGAAGAGTTGGATGACCAGAAAAATTCAGGTGACTTCT  
CCAGGCTTCCAAGTGGTCTTTTACCCTTTGCTGGTGATAAAAGGAAGAT  
GCCTTTTTCTGAAAAAATTATGGCCCTTCAAAAACAGGGGGCCATGAAG  
AAGTGTTTTTTAAGAAAAATGCTTTTGCTTAACAATACAGAAGGTGCCATT  
TTTAAAAATCCCCCTGTCTGCATTAACCATTTTAGGAACTTGGAGGCCT  
TTGGCCCTTGATTTTTATGGGACCCGGAACATAGCAGGGTTCCTAACTT  
TCCCAAGTGTGAAGCTTTGAATAAATGCCCGGGCCTCTCTGGGTGGTAA  
TTATAAGGGTTGTTGTTTCCCCCAAAAATTAATTTTTTGGAGGGTAATC  
T

>Sequence 405

GGGCGTGTGTAGATCCCACTCCGCGGTGGCGGCCGAGGTACGCGGGGGGC  
GGCGGCGGAGAGAGCTGGCTCAGGGCGTCCGCTAGGCTCGGACGACCTGC  
TGAGCCTCCCAAACCGCTTCCATAAGGCTTTGCCTTTCCAAGTTCAGCTA  
CAGTGTTAGCTAAGTTTGGAAAGAAGGAAAAAAGAAAAATCCCTGGGCCCC  
TTTTCTTTTGTCTTTGCCAAAGTCGTCGTTGTAGTCTTTTGGCCAAAGG  
CTGTTGTGTTTTTAGAGGTGCTATCTCCAGTTCCTTGCACTCCTGTAAAC  
AAGCACTCAGCGAGAGCAGCAGCAGCGATAGCAGCCGAGAGAGGCCAG  
CGGGGTGCGCTAGTGTATGACCAGGGCGGGAGATCACAACGCGCAGAGA  
GGATGCTGTGGATCCTTGGCCGACTACCTGACCTCTGCAAAATTCCTTCT  
CTACCTTGGTCACTTCTCTCTACTTGGGGAGATCGGATGTGGCACTTTG  
CGGTGTCTGTGTTTCTGGTAGAGCTCTATGGAAACAGCCTCCTTTGACAG  
CAGTCTACGGCCTGGTGGTGGCAGGGTCTGTTCTGGTCCCGGGAGCCATC  
ATCGGTGACTGGGTGGACCAAGATGCTA

>Sequence 406

TGAAATTGTTGTCTGNGATTACCTCCCCGCGGTGGCGGCCGAGGTACAG  
TTCACAGTGCTTGATGATAATAAATGGTTATTTTACTGGTTCATGTATTT

Table 2

ACTATATCATACTTTTTTTCATTAGAGTGTGCTCCTTCTACTTATGTAAA  
AAAAAAGTTACCTCAGGGAGGTCTTCCTGAGGTCTTCCAGCACACGGCA  
TTGTTATCATAGAAAATGACAGCTCCATGTGTGTTACTGGCCATTACCAC  
CTTCCAGTGGGAAGGATGTGGAGGTGGAAAGCATACTGATGATTTTGTCC  
CCGTGGAGGCCTAAGCTAATGTGTGTGTTTGTGTCTTAGCTTTCAACAAA  
AAAAAGTTTAAAAAGCAAAAAAAAAAAAAAAAAAGTACCTGCCCCG  
>Sequence 407  
TGGGGCGTTGGCCCTCTCCGCGTGGCGGCCGGTGTGCTCATCGTAGCCTC  
GGG  
>Sequence 408  
GTACCTCCACTGGCTGAAGTCTCTACATAGCTCTCAGGAACCTTCGGAAA  
GGCATCCAACCTTTTTACCAAACCTTAAAGTTTTTTTCCGATTCAAGTCGCC  
TCATCTTCAGGAAAACCTTCTCTTCTTCATATAGTCATGCTTGTGTTA  
TGGTCCCAGCCTACCGCCATGTTTTACAGAAGCCCCGGTTCGCCGGGGCTC  
CCGCGTACCTGCCCGGGCGGCCGCTCGAGGCAGGTACTGAATGACACATT  
ACCTCCACACTCTCCCGGACTAGGTGGTCAACAGGGCCACAGGGTTGCTT  
TCTGTCTTTGGTGGGGCAGGGGAGTTGACAGGGATGAGGGTCCAAGGAAT  
TAGCATGAATGACAAGATAACAAGGGAAGAGTTAACCTGTCACATAGT  
AGGTAACTTTTTTTCAGGGTTTGGCAGTAGAGGTATTCGAACTTCACTG  
GCTGAGCCAGATCACGGGAACCTGGGAGCTTTTACTGTGATTCCCTCATGT  
AAAAAATTAACAACAATGTCAACTGGGTTGGATGATTTGTTAAGGCCTTT  
TAGATTACTTTTAATAACATTTTCCCGAAAAAAAAAAAAAAAAATAGTAC  
TGGCCGTTTAAACTGGGGTCCCCCGCCTGGGGTTTCTTTCAACTTTTCTT  
CCGACTGGG  
>Sequence 409  
CCACTCGCTTCATCTATTTCTATTTATCCATATACTCTGTTGTTCTTGGC  
GCTATATATTTGTGTATTAACACTTTTTTTTTTCTTCCCACTAATTTTGT  
GATCTACCTAATATTTTCTTCAACATCTNNTTCTATATTTTTTTTCGNAA  
TTTATTTTTCTCATCCGGTGGCGGCCGAGCACCTNATTTTTTTTATTTT  
GCTTTTTTTTCGCGGGAGTTAAATAAAATAAGCATGCTTTCATCCTTTAT  
TCTAAACATTTACTTATGACAAATGTAACGACTGACAGAAATTTGAAAA  
ATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAATTTACCCCTTC  
TTGTTTTCTCTGTCTTTTCAGGTAATTAACCTTCTCTTTTTTAGTTTGAA  
CTATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAGTGGACGGGTATTAA  
AAAAAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCTGGCTTCG  
GAAAGTGGTTGGCTCACCCGCGTACTGTCCCGGGTTATATTATTTTAT  
TAATTTTTCTTTTTTTCTTCTGTCTGCTGCTGCTGCTTTTTTTCTTCT  
TATTTTCCCCCTTTCTACATAAAATTCACCTTTTTCAAATTTTCCCCATC  
TTGCCTTATTTTGTATTAGTTTTCTCTTTGTTTCCACTCTTGGTTGAATT  
TTTTTTATTTTTCATTGTCTTCTTCTTTTCTTTTACAAGTTCTAGCCTAT  
CCCAGGTTTTTAAAGGGTTTTTCTTAACCTTTTTTCCACTCGGTTATTCAA  
TT  
>Sequence 410  
TGTA CTGATGCGTGGGCCGCCCGGGCAGGTACTGTGCAGTAGTAACCATA  
ATTCTAAATGAGGATTATGGATTTTTCTGGAAGATTCTTTTTCTGTGG  
AACATGATGAGAAATGTTTAGGAGAGGGGACATAGCCATTTTGTATGAA  
GACCAATTCAAGAAAAAATATATGTATGTGTGTGGGTGTATATGTGTGT  
ATATATGTATATATGTGTGTTATGTCATACGCCNATGTATGTTTATATAT  
GTGGTTATACACACGCACGCACACTGACACGATGCACACATGCAC  
GCACAACTTCACTATATTTATTCTCTGCTTCCCTGGGGGACTGATGC  
CAGAACCTCTGTAGATACCACATCCGGGGGTGCTCATGTCCCTCTGCC  
AATAGCTTAGTCCGGCTGGGCATCGTGGCTCACATTTGTAAACCGCACAC  
TTTGGCAGCCCAAGCCGGCCGACCACTTGATGTCAAGAGTTTGGGACCA  
TCCTGGCCACATTTGTTAAACCATTTTTTTCTTAACCTACAAAATATT  
GCGCATGGGGGACCGCCCTATCAAATTCATACTAATGAGGCCCGCGCA  
CGAATGTTGAACCCGGGATGGGGAGGTTTCAGGGGCCCTATAGCATGC

Table 2

CCATTTCTCCAAGGGGGG

&gt;Sequence 411

TGTAGATCGTGC GCGCGGGTACGCGGGGTGCTGGGATTACAGGCACGAGCC  
AGTGC GCGCCAGCTGCCTGTGTTTCTTTTATTAGCTGATCTGGACTGAGGG  
GCTCCTTGAGCAGATGCTGTATTATGGGGATAAGCCACACACTTTCTGAA  
CTGGCCCCGGTCAGGGGGGACATAACCATTTCCTGTGCCACCCCATCAGTA  
CCCACCTATTGTGAGCGAAGGCTCCTCCCCCTGCTTGAGTAATGGCCACAG  
ATCTTGGCTCGGCACTCCTAAGCTGCATGATGAATTCCTGGGACAACAAG  
ACTGGCTCGTGGTTCCATTCTCCAGATCCTTGGGTGGCTTCTGGGTGCA  
CTAGGAGATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAA  
GTCTGACTCTAAAGAAGATGAAAATCTAGTAATTAATGAAGTCATAAATT  
CTCCCAAAGGGAAAAAACGCAAGGTAGAACATCAGACAGCTTGTGCTTGT  
AGTTCTTAACCACGCAAGGATCTGAAAAGTGTCTCAGAAGACTACTAGA  
AGAGACGAAACGAAACCTGTGCCTCGAGCGGTCCGCTGGCAGGTACAAG  
TTGTAGTAAACAAAGCTTAAAGTTTTTTCATCTTTCTACAGCAAATGGT  
CAGTTATTTATAAACCT

&gt;Sequence 412

GTTGATGGCGCGCCGGCAGGTAAGTATGTTCTAAGCAC  
AGAAGTTTCTAAATGGGGCCAAAATTCAGACTTGAGTATGTTCTTTGAAT  
ACCTTAAGAAGTTACAATTAGCCGGGCATGGTGGCCCGTGGCCGTAGTCC  
CAGCTACTTGAGAGGCTGAGGCAGGAGAATCACTTCAACCCAGGAGGTGG  
AGGTTACAGTGAGCAGAGATCGTGCCACTGCACTCCAGCCTGGGTGACAA  
GAGAGACTTGCTCCTCAAAAAAAGTTACACCTAGGTGTGAATTTTGGCA  
CAAAGGAGTGACAAACTTATAGTTAAAAGCTGAATAACTTCAGTGTGGTA  
TAAACGTGGTTTTTAGGCTATGTTTGTGATTGCTGAAAAGAATTCTAGT  
TTACCTCAAAATCCTTCTCTTCCCAAATTAAGTGCCTGGCCAGCTGTC  
ATAAATTACATATTCCTTTTGGTTTTTTTAAAGGTTACATGTTCAAGAGT  
GAAAATAGATGTTCTGGTTGAAGGCTACATGCCGGATCTGGTAATGAACC  
TTGTAATGCTGTATTTGCTTCACGGCTTACTATAAATGTTACTTAATACA  
TATCAACTTATTACAATTACTATAGAGGGTATAAGTAAATTAATCTCTA  
TTT

&gt;Sequence 413

TGGATGTGTGGGCGGAGGTACCTAGTCTATATGAGTTTGATGCTTACAGT  
CAAGGCTATTAGCAAATATTCAGGAAAAGTAAAGCCTAAAGAAGAAAAGA  
GGGAATGAATAGTTTGTCTAGAGATAATAAAGGAAGGTGAATTTTAAA  
AAGACAAAAATAAGGCTAGAAAAGACTGAGTGGAGAAAAGCCTACAGAATT  
TCAGAAAAGCTAAAGAAATTGGAAATTAGATTGAATATAGATAGAAATGGG  
AGGACAATGCAGCCAATGAAAGACTGTGGGGACTAATAAAGGGAGAGCCC  
TGTGGTTTGGAAAGTGTCCCTTAATCAGCCTGCAGTGCTGCAAAACAGAA  
ACCCAGAGAGGGTGCTTGAGAATATACAAGAACCCTTGCGGTGGTGACTG  
AACAAAACGCAGCCAGGGATTTTCATCAGAAGCATAATCCATTTCATGGCAC  
CAGTCTGGCAGTGCTGGGGAGCTGGTAAGATACACACAGGCCCAAGTGTCC  
AGTCTTGATTGATATGCTGGTATTTTGGTTCTGTGGTATTCTTTTATCA  
AGGACTAAGGGTTCCCATGTGCCTTCGAGGGCATATTNTTCCACCGACA  
CGTCGGGGTCTAGGCCTACGGTGGCTTTAACCTACTTCTACCCCACT  
T

&gt;Sequence 414

TGGAGATCTCCATCGGGGGCGGCAGGTACGCGGGATCCAAGATGAAGTGC  
AGAGAAAAATAAGAATCCAAAGTCATAGTCATGAGGACAGAATAAAGACA  
TTTTATGCCTTTTGTGTTTGTGTTTCTTTTGTGGAGAACAGGGT  
CTCTCTATATTGCCAGGCAGGTCTTGAACCTCTGGGCTCATACTGTCT  
CCTGCTTCTGCCTCCCTAAGAGCTGGGATTACAGATGTGAGCCACCATGC  
CCGGCCAGAATAAAGACATTTTAAAACTAAAAAAAAAAAAAAAAAGAGTT  
TGCTTTGCATTAAATCTTTTTTTCTTTTTTTTCGTTTTTATTTTTAGTT  
TTTATTTTTTTTGAGACGGAGTCTCACTCTGTACCCAGGCTGGAGAGCA  
ATGGCATGGTCTCGGCTCACCGCAACCTCTGCCTCCTGGGTCAAGTGAT

Table 2

TATCCTGCCTCAGCCTCCTAAGTAGCTGGGATTACAAGGTGTGAGCCACC  
ACGCCTGGCCAGAATAAAGACATTTTAAAACTATAAGAAATAAAATAAAA  
TANTTGTAACCTAACTCAAAATTTTAAAAAAAAAAAAAAAAAAGCCCC

>Sequence 415

CTTGAACCTGTTTTGTCTGCTCCGCTAGCGGATTTAGTTAACTCAAAGC  
TGTAATTCGGGTATCTCAAAATAATGTGATTACCCCGGAATTACCTTTTT  
TCAATGGTCTCTAAAATGCCATAACCTTATAAGGGCCGGTTGATTACGCT  
TTCATATAGTTGGCCCCCTGCCAGTCTATAAAAAAGT

>Sequence 416

TGGTGATCGAGACCTCACCGCGGTGGCGGCCGAGGTACGCGGGGCTGCGG  
AGGACCGTGGGCAGCCAGGGTCGGTGAAGGATCCCAAAATGGCTGGGCGA  
AAACTTGCTCTAAAAACCATTTGACTGGGTAGCTTTTGCAGAGATCATACC  
CCAGAACCAAAAGGCCATTGCTAGTTCCTGAAATCCTGGAATGAGACCC  
TCACCTCCAGGTTGGCTGCTTTACCTGAGAATCCACCAGCTATCGACTGG  
GCTTACTACAAGCCAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGA  
GAAGAAGTTTAAATGCGCTGAAGGTTCCCGTGCCAGAGGATAAATATACTG  
CCCAGGTGGATGCCGAAGAAAAAGAAGATGTGAAATCTTGTGCTGAGTGG  
GTGTCTCTCTCAAAGGCCAGGATTGTAGAATATGAGAAAGAGATGGAGAA  
GATGAAGAACTTAAATCCATTGATCAGATGACCATTGAGGACTTGAATG  
AAGCCTTTCCAGAAACCAATTAGACAGAAAAAGTATTCCTATTGGCCTT  
ACCAACCATTGAGAATTATAAATTGAGTCCAGAAGAGCTTGGCCTTGAT  
ACACATCTGACTTAAAAATATTTTCAAAAAGAAAAAAGTCTCT  
GCCGGCGCC

>Sequence 417

TGAANTTGATGCTCTCCGTCTGCGCGGCGCGGACCTTTTTTTTTTTTT  
TTTTTTTTTTTTGAGAGGGAGTTTGCTCTTTTTGCCCCGGCTGGAGTGC  
AATGGCACGATCTCGGGTCACTGCCACCTCTGCCTCCTGGGTCAAGTGA  
TTCTCCTGCCCTTAGCCTCTTGGGTAGCTGGGATTACAGGCGCCACCACC  
ATGCCTGCCCAATTTTGTATTTTAGTAGAGATGTGGTTTACCATGTTG  
GTCAGACTGGTCTCGAACTCCTGACCTCAAGTGATCCACCCGCTTGGCC  
TCCCAAAGTGTTGGGATTACAGGTGTAAGCCACCGTGCCCCGCCATCAGT  
TGTATTTCTATATAGTAGCCATGAACAATCAAAATGAGATTAAGAAAAATG  
CCCTTTTTTAATTGCTTTTAAAAGAATAAAATTTTAAATGATTAATTTAAA  
CCAAGAAGGGCCAAACCTTTCCCTTGAATATTACAACTCTTTTTGAAG  
GAATCAAGGAAGTTGAAAGCCCCCTTCTGTTTTCGGGTTTTGAAAATAT  
TTTTTTTAGGGGGGCTCTTCCCAAAAAATTTTCTAAGGTGGGGGGCCTT  
TCTAAACATTTTTTTTTTTTTTAAAAAAGTTTATTTTTTTGGT  
AGGGGGGGGGCCAAATCTTAAATTTTAAAAAACCCCTCTCTTTTC

>Sequence 418

GCTGTGATGCAATCCNACTCACCGGTGGCGGCCGAGGTACGCGGGATTT  
TGAATGAATTCTCAACAAAATGTGCTAGCCACTGGGGACGCAAAACAAGT  
AAGATCCCTGTTGCAAGAAATTCATTTTATAGTGAGGGAGGTTGGCATGG  
AGACTAAAATTCAGGAAAATGAGATCCGTGTTAGATAGAATCCTGATG  
TGAAATGGGAGGACTCAGGAAGGAGGATCGTCTTTACCTGAGGATTTCTA  
GCCAGAGGTCCCAGATGCCTGGGCTGAGAAGCCAGCGATAAGGGGGCGTT  
CCCAAAGCAGACACAGGGATAAGAACAGAGGAGGCAGCAGCATTGCACAG  
CCCCAGGCACAGTGGCAGTTAGGATGGCTGGAGAGTAGGATAGTTCTATG  
GGTTGCCCAAAAAATGTGATGTGCTTCATGTTTTCTCTGACTCATGGATC  
TGGTAGAGACCATAGACATGATATAGACTAACTTGGCCATTTTCACAAG  
AGGAAACCATGCTTATGACTTACCTTAAAGTTTTTTGTTCTGTTTGAAG  
GAAACCATGTGCTTCATGAAACCTACAGTTGACAAGGGAATGTACCTTGC  
CCGC

>Sequence 419

AGGTACAGTATATTGACCTTAAAAATCAGTAAAGCAGTCATGGAAATAAC  
AGTCTGTATTATTTCATGGGCACAACTGACTCATGGCTGGGGAAGAAG  
CAGCCACCTTAGACCAGATGGACAAGCCAGATACTGCAGAGAAGTTCTG

Table 2

GGCTTTTNGGGAGACTCTAGATTCAATTCTGTAAAGTTATGATGCAGTTT  
TCTCCTTCCTCTCCTCTCACCTCCTCTGAGCACAGCTTCAACAAAAACT  
TTGCATACCCCGGTACCTGCCCCGGCGGCCGCTCGAGGTACTTCTCTGA  
GCATTGGCCTCTGGCTGGGATTATGCTTCAACAGTCTTGAAATGAGGTCC  
CTGGCTCCCTCTGTTACAAAGTCAGGGAATGTGAATTCAACCCGTGATAT  
TCTTTTGTAGGTCTCTTGGTATGTGTTTGCCTCAAAAGGAGGCTTCCCAA  
CTAAAAATTCATAGCAAAGAACTCCAAGGCTCCAGAGATCCACCTTCTCA  
TCATGCATGCGACCTTCAATCATTTTCAGGGGGCAGGTAGTCCAGGGTGCC  
ACAGAGATGGTCTGCTGGAAGAGGAGCATGTACCT

>Sequence 420

NCCCGATGCGNCTTACTTGAGGCGCCCGAGGTACGCGGTGGTCGGCGCCA  
TTTTGTCTCGGCAGCGGTGGCCGTAGCTCCATCGCATTTTATGTTTCTGG  
CGAGAAGGGAACGGAGTTTTCATCAGGTAGATTGGTTTTTGT

>Sequence 421

GAGGGGATCATCCGACCGGGGGGGGGCGCCGCTGCCCTGAAAGACCTCC  
TGCTGGAAGACCTCCAGGATGGAGAAGTGAGGCTGGGTGGCTCCCTGCGA  
GGGGCATTACAGCAACAATGAGAGAATTAATACTTCTTCAGAGTCAGTTT  
CAAAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGACACTT  
TCAACAAACAGCAGTGGCTTAACTGTATTCGTCAAGCCAAAGAAACAGTT  
TTGTGTGCTGCCGGGCAAGCTGGGGTGCTTGACTCCGAGGGATCGTTCTT  
AAATCCCACCACCGGGAGCAGAGAGCTACAGGGAGAAACAAAACCTTGAGC  
AGATGGACCAATCGGACAGTGAGTCAGACTGTAGTATGGACACGAGTGAG  
GTACGCCTCGACTGTGAGCGCATGGAACAGACAGACTCTTTCTGTGGAAA  
CAGCAGGCACGGTGAAAGTAACGTCTGACAGAAGCATGTGCACTTCGGGA  
AGCAGGCCTGCATCTTACCTGTACCTTGCCG

>Sequence 422

GGGCTATGTGCANTNTTTTTTGAANNCCNANCTTACCGCGGTGGCGGCCG  
CCCGGGCAGGTACGCGGGAACCTGGGGAATTCTGGCCCTACGTGCATTAC  
AGGCAATGATGGGTTTGTGTGTATGGTGTATGAGATCCTCTACCTCATA  
ACAAAAGGACATGGGTAGACTAAGGCAAGTACTCAAAAGGGCTTTGCAAA  
ATTTAATATATTAAACAAGAGGCATCTGCTAGAAAACATTCTATTGTAT  
ACATACTGAAAACCTATAAGGTCTCGGATAATTTTTGTTTGATTATTCA  
TTGAAGAAACATTTATTTTCCAA

>Sequence 423

TTTGGANTNGCCACTCCACCGCGGTGGCGGCCGAG  
GTACGCGGGAGAAGGAGATTACCTCAACATAAGAACCGTATGTGAAAAGC  
CCACAGCTAACATCATACTCAATGGTGAAAGACTGAAAGCTTTTCCCCTA  
AGCTCATGAAGAAGACAAGGAGGCTTGGTTTTGTGGCTTCTATTTAACAT  
GNGTAATGGAAGTTCTAGCCAAAAGGAAGTAAGCAAAAAAAAAAATCGAAA  
TTAGACAGGGGGAAGTAAATTTATCTTTTGCAGATGATATGACTTATAT  
GTATTATAGAAAACCTTGGGCCAGGTGCAATGGCTCTTGGCTGTAATCCT  
AGCACTNTGGGAGGCCGAGGTGGGTAGATTGCCTGAGCTCAGAAAGTTTGA  
GACCAGCCTGGGCAACACCGTGAAACCCCGCCTCTACTAAAATACCAAAA  
AAAAAAAAAAAAAAAAATTAGCCGGGCGTGGCGCATGCTAAGGCAGGAGAATT  
GCGTGAATCTGGGAGGTGGAGGTTGCAATGAGCTTGAAACTTGCCACTGC  
ACTCCAGCCCTGGGGGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAAAC  
GGAGAGAGAACCCTCAAGATTACGCACACACACAGAGCCCTGCTTGA  
ATAATAAATGAGGTACGCCAAGAAGTTCCGGCATATACAATCAACAGGCA  
AAAAATCCCTTGTCTTAGCCCTGACCATTTAAATTTNNAAAAAGAACTTA  
GGATACCGGTTTCAATTTTATTGCATTCAAAAAAAAAAAAAAAAAAAAAA  
GAACTTGCCCGGC

>Sequence 424

TGAATGATGANGTCNCTTCCGCGGTGGCGGCCGAGGTACTGCCGTAGCCG  
CTCCTCCCGCAGCTGTGCCGCCTCCTTGTCTCCTCCTCATTGTCACTGC  
CAACAGGTCAATGTCATCATCCTCGTCATCCTCTGCTGGTGTGGCTGGC  
TTCCAAGCTGGTGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTCACT

Table 2

GTGTGGTGGAGGACGACAAGGTGGGGACAGACTTGCTGGAGGAGGAGATC  
ACCAAGTTTGAGGAGCACGTGCAGAGTGTGCGATATCGCAGCTTCAACAA  
GATCTGAAGCCTGAGTGTGGGTACCTGCCCG

>Sequence 425

TGGATGATGAAGTCCTCACCGCGGTGGCGGCCGAGGTACTAAGTGGTTTA  
AGGATGGAAAAAGAGCTAACAAGTGACAACAAATACAAAATAAGCTTCTTC  
AACAAAGTATCCGGCCTTAAGATCATCAATGTAGCGCCGAGTGACAGTGG  
GGTATACAGTTTTGAGGTGCAGAACCTGTTGGCAAAGACAGCTGCACAG  
CTTCATTGCAGGTTTCAGGTTGGTTGATTTCTTGGGCTTTTCCTTCATCA  
TTATAATAATGTAGTTCCTGATTTTCATAAATGTATATGGGTGTGTACAT  
CTTCTATAGGATAACATGAGTCCGACATCTTCTGAATCAGCAAATTCAGA  
GGCAATACCATCTCAAGAAGCCACCATTGAGACCACAGCCATTAGCTCAT  
CCATGGTCATCAAGAAGCTGCCAGAGGAGCCATCAAGGCGTCTATTCTCTT  
AAAATGAGAGGCAGGACTGGCTAGGGTGATGCCTAAAGATGATTCCCAGG  
CTTGACATGCTGGTATTCTTACATATCTATTCTGGCTGTATAATCTGTG  
CGATGAAAATTCCAAAACCGAGACAGGAATTCGCACCTTGTTAAAGTGGA  
GCTCCAAGCCTGAGATCCAATTGG

>Sequence 426

GAATGCTGAAGCCCTCTCCGCGGTGGCCGGCCGCCCGGGCAGGTACTGAA  
TGTGGGAAAGCCTTTTGCCAGAAACCACACCTGACCAACCATCAGCGAAC  
ACATACAGGAGAAAAACCTATGAATGTAAGCAATGTGGAAAAACATTCT  
GTGTGAAGTCAAACCTCACTGAACATCAGAGAACACACACAGGGGAGAAG  
CCCTATGAATGTAATGCATGTGGGAAATCCTTCTGCCACAGATCAGCCCT  
CACTGTGCATCAGAGAAGACACACAGGGGAGAAACCTTTTGATGTAATG  
AATGTGGGAAAACCTTCCGTCAGAAGTCGGCCCTAATTGTTCAACAGAGA  
ACTCATATAAGACAGAAAACCTATGGATGTAATCAATGTGGAAAATCATT  
CTGTGTGAAGTCAAAACTCATTGCACATCATAGAACACACACAGGGGAGA  
AACCTATGAATGTAATGGTTGTGGAAAATCATTCTATGTTAAGTCAAAA  
CTAACTGTACCT

>Sequence 427

GAAATGATTANTGCCTGACCGCGGTGGCGGCCGAGGTACCTTACTTAGCA  
GAGCACTTTGCAAACATATTACTTATTAGCAGAGCTCTTTGTAGACCTTC  
CACATCTGGCTGTGAGATCTTAAGGTTGTGAATTTAGGCTCCAGTTATAT  
TCACTGGAGAGCATAATCCACACGGGTTATTTATAAATACAGAGCCTCT  
GATTGGACGGTCTCCTGCCAAGAACTAGTAATACCCTTGTTTTAAATCT  
TCACAAGGTAAAACTTAAAAAGCCAACCAAACAAATTGCTCTCCATTCTA  
CTTTTAATTGGGCCAAACAGCATATGCTACAGTAGTAACATGTTTTTCGG  
AGAGTGTAaaaaactctgtttacatttgcctcctccgtgggttgatcgaa  
aatgtataaaaactgactgcttctcgccagcctcagacaagaagagtgagc  
tgctggt

>Sequence 428

TCTACACGCGAACTTTGCACCTCTCTACATATCGTATGTAGTATGACTTC  
TAATTTACTTCATATCTGACTCTACCTCTATCATACAACTATTCGTCTAA  
TAAGTTTGTATACGATTATTAGGTGTGAGAGCATCATCATTAACACA  
TACAANTAAGGGGNNNGAGTTGATTTGATGCNCCCTTCGCGGAGGCGGC  
CGAGGTACAATTCTAATCTAAGTTCGCGAAAGCACTTTCAGGCCAAATGCAG  
AAACGTCCCATGCCCCAGGAGCAAGCTTCAAAATGTTCACTTGGGG  
CATTAGGCAGAGTAATCCAGGGATGTTTCTGAAGGCCCTTGATGATACCA  
TTATCCTCATTATAGATGATGACGGGCCCTGCGCTGGATACCGCGACG  
GTTTCTCATTTTGCTTTGACAGCTCTCATTGCTGAGAGGCATAGACCT  
TTTTGATATCATTCCAGGCTTTAAGGCTTCTTAAGGAGCAAAACAGCTTC  
CTTGGTCTTATTGTAGCCTTCAACTTTATCTTCAACTACCAAAGGAAGTT  
CAGGAACCTTCTCAATACGATGACCTTTAGACATGACCAAGTGCTGGTAGG  
GCTGAGGCAGCCAGGGCAGAACAGATGGCGTATCCTTTTTGGGTTCCCGC  
GTACCTGCCAG

>Sequence 429

Table 2

TGGGGCGTTGTTCTAACC GCGTGGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTGTGATCTCAACTGCTTTTAGCAAGTTGTGAATATACTTGGGC  
TTTCTGTCTTTCCCCAAAAGCAATTTGGGATTATTTTCCTCCTTTTTTT  
CTGCATTTTCATATAAATACTGTCATATTCATACACAGTAGCATCTTCTG  
CAAGGGCCTTCTGGATTTCCAGTTTGGTCTGTTTCATGGECTGCTTCTTA  
GCAGCTTCCCTCTGAAGGCTTCACTCACAGAGGTCTCATCATCATCATC  
AGAATCATTTCCCAACACTGATGGTTTTTGCAAAACAGGGTGCAACTGCT  
GTGTTTTCTTTGGCAAAATAAGCCCATACTACCTGCCCCG

&gt;Sequence 430

TTTCCGTTGTTCTCATCCGCGTGGCGGCCGAGGTACAGACAAAACACTAC  
AGACTTAGTCTGGTGGACTGGACTAATTACTTGAAGGATTTAGATAGAGT  
ATTTGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAATAAGACTC  
AAACTGCTCAAAGTGACGGGTTCTTGGTTGTCTCTGCTGAGCACGCTGTG  
TCAATGGAGATGGCCTCTGCTGACCCAGATGAAGACCCAAGGCATAAGGT  
TGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTCAAACCCCTGCATT  
TGAACCGACCAACATTAAGTCCAGAGAGTAAACTTGAATGGAATAACGAC  
ATTCCAGAAGTTAATCATTTGAATTCTGAACACTGGAGAAAAACCGAAAA  
ATGGACGGGGCATGAAGAGACTAATCATCTGGAACCGATTTCACTGGCG  
ATGGCATGACAGAGCTAGAGCTCGGGCCAGCCCCAGGCTGCAGCCCCATT  
CGCAGGCACCCGAAAGAACTTCCCCAGTATGGTGGTCTTGGAAAGGACAT  
TTTTGAAGATCAACTATATCTTCTGTGCATTCCGATGGAATTTCACTTC  
ATCAGATGTTCCCATGGCACCCGAGAACACCGAAGTAATTCAGCATAA  
GCGGGAAGATN

&gt;Sequence 431

GAAAGTTTTCGTATCGGGGGCGGCGAGACCAAACAACAGCCCTCCAACAA  
TGATGACCAAGTGAAAAACAATGGAGTCACAAAACCTGGGACAGGCTCA  
TGCTCCAGGACAATTGCTGTGGCGTAAATGGTCCATCAGACTGGCAAAAA  
TACACATCTGCCTTCCGGAAGTGAAGATAATGATGCTGACTATCCCTGGCC  
TCGTCAATGCTGTGTTATGAACAATCTTCGAGCGGCCCGCCGGGAGGAC  
GCGGGAGTTCAAGAAGCTGGTGGTCAAGGAGGAGGAGGTGGAGGTGGCAG  
TGGAGGAATTGCAGAAGCTGGAAGTGGTCATATGAACTACATTCAAGTAA  
CACCTCAGGAAAAAAAAGCTATAGAAAGGTTAAAGGCATTAGGATTTCTT  
GAAGGACTTGTGATACAAGCGTATTTTGCTTGTGAGAAGAATGAGAATTT  
GGCTGCCAATTTTCTTCTACAGCAGAACTTGTATGAAGATTGAAAGGGAC  
TTTTTTATATCTCACACTTCACACCAGTGCATTACACTAACTTGTTCACT  
GGATTGCTGGGATGACTTGGGCTCATATCCACAATACTTGGTAAAGGTA  
GTAAATTGTTGGGGGTGGGGAGGGGGGAACTTGAT

&gt;Sequence 432

GGGCGTGTTCGATTACCGCGGTGGCGGCCGAGGTACCACTGCTTCCCGG  
GACTCTGCGTTGTTACCACTGCTTCCCGGGAAGTCTGCGTTGTTACCACTG  
CTTACTGCGTTCCAGCATTTCTTTTCTTCTCGTTTCTGATAGATTCC  
GGCTAATGGTTTTCCCTGGCATTGACTTCGTGATGTGTAAGTATTCTC  
TTCTGAAGGGGAAACGCATTCCAGAGCATTTGTTCCGGGCTCATGTAGG  
AATAGATCTTTGACTGCCCCGTAAATCCCGCGTACCTGCCCCG

&gt;Sequence 433

GGGATGTGTTTGAATNTGCNAGCTTCAACGGGNGGCGGCCGCCCCGGGCAG  
GTACAAATCTACCTCCCCACCAATGTCCTTAGAGGGCCAAAGATGGCCT  
TTGTTTCTTCATGATAACATCGCCTTTCTTTTTTTTTTTTGGAGACACGGT  
TTCATTCTGTACCCAGGCTGGAGTGAGTTGTGCATTTCATGGCTCACCA  
CAGCTTGAACCCCCAGCTCAGGTGATCCTCTCACCTCAGCCTCCCCAGT  
AGCTGGGACTACAGGGGCACACCATCAAGCCCCGGGTAATTTTTGAAATT  
TTTATAGAGACAGGATTTTACCATGTTTCCAGGCTGGTCTTGAATTCTT  
GGGCTCTAGTGATTCTCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAG  
GCATGAGCCACCACCCCCACCTGTCTATTTTACAATTTTCTTTGAGCT  
CTTTTTTCCAGCAGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAA  
ACTGCTGACTCCCTTTATCTTTCCATAGCACCCCAAGCCTAAAACCAGA

Table 2

CTGGCACAAATGGTACCT

&gt;Sequence 434

TGGCTATAGAGACTTCTCTCGCGGTGGCGGCCGAGGTACTTTTCTAAAAGC  
TCATCCACTCTATCATTTAGATATCCAATTTTCAGAATGTGCTCAACATT  
GGCCACTCCATCTGCCATTCTTAAGTCTCCTTGGGAGTCTCCCAAGAA  
TTATGTTACTATTGTCTTTTAGTTGATTGAAATATTCTGTATTCCTCAAG  
GCACCATCATGTTTGTAAATACATGAATTAGTTCTCCTTTAAATCCTTT  
GAGCACCCCTATGAAAAATATAATCTTTTGAACAGGCTTTAAAAATTC  
TATTTGTTGGATTTTCATATTTTGGAGCTCTTAATTGATGTCACTATTAT  
TTCATCATATTTGTAAATACATCTTTGATACTAGAGATCTCAAAGCACTT  
AAGTCCATCACATTCACCATAGCTAAGAAGGGCTCGGAGAAGTAAATGAT  
TTTTAGATACTATTTTAAATGGTAAACAAAAGCCGGGCGCAGGGGCTC  
ACACCTGGTATCCAGCACTTTGGGAGGCCAAAGAGGACAGATCACTCAG  
GGTCAGAGTTCGAGACCAGACTGGCCATATGGTGCCAACCCCCCTACTA  
AAATAAAAAATTAGCCACGTTTGTGGCACGCACTGTAAT

&gt;Sequence 435

GGGATGATGTGACCCTGTCCGCGGTGGCGGCCGCCCGGAGGACGCGGG  
GGTTGCTCAAACCGAGTTCTGGAGAACGCCATCAGCTCGCTGCTTAAAT  
TAAACCACAGGTTCCATTATGGGTGCACTTGATGGGAAAGTCATCATCT  
GA

&gt;Sequence 436

TGGGGGGTTGTCAACACCGCGGGGCGGCCGAGGTACGCGGGGGAACACCA  
CCCAGTGTGGAGCAGCCAGCCAAGCACTGTCAGGAATCCTGGGGAGGCA  
GCTACCAACTGACTGCAGATCTGGAATAATAAGTGAGGGGTAGATCTGCC  
CATAGAGCTCACTTTAGACCGGCCTATACTCTACAAAGAATTGTGGTAG  
GATCTTTTACTCATCCTTGCCACAATAGAATGGCCAATGCCCTTCTAAGA  
TGTTTGGTGAAAGTCTTGGAAGCACCAATTTCCCCATCACCCCTGGGAA  
GAAATGAAGTCCCTAAGGCAACCACAGGGCTAATGGAGGCTGAAATTT  
AACAAAACCTATTGGGGGGGAAAAACCCAAAAGGGCGGGCATATTTTT  
TTCCCCAAAAGGGAGCACAAACCCAATTAATCTTTAAAACGGAGTGGG  
GGGGGCAAAATTTATGGCCCAATGGCACAACTGGGAAAAAAAATCCTAA  
GGGCCGGGTTATATTCCTATAACCCGTAATAACTCCAACCACCCGGT  
AATTTTTAGAAACCTTAAAAAAGACACATTTTTTGGGGAAAAGCAGGGG  
AACCTTTTTTCAAACCTAATCCACCTTTGGCTTCCCTGGGCACAACAA  
TTATTGGTAAGGGCCTTTGCAAAAATAAAGGGGAAGGACCCTCCCCGGC  
GGGCCCTA

&gt;Sequence 437

GTTATACTAGTTATTTTATATTACTCGTAATATGCTTCGTATTCGTTTCT  
TTATCTTAGTTGTGTACGTTATACTCATGTATCAGTTTGTAATTTACTAA  
AATTGTATCTATCATATAGTTACTATTTTNTNTATCTTGCTGTTGTGGT  
TGGCGGCCGATGTACCTTTTAGAAGAGAAAAGAATCTTGAATTGTATAT  
ATTTATTTTGCTTTACAGAAAAAATGGTTTCGTAAATAATTTGCCTATT  
TTGGTTAACATAGCACATGGAGATAATCATCTGAAAGTTATAGGGCACTG  
CCACTGCTGAATCAGAGCATGCCCAATATTTGAGGTGGCTCTGATTTCT  
GGCAGCTGAACTCGGGTAGTCCAGTGGCCTAGCTGGTCCTGCCCG

&gt;Sequence 438

ATTTTCTAGTCTATAATCTTTCTGTTATATTTATATGTATTTTATCATTT  
ATGTAGTATGTATCTATATATTAATTGTTTAATAGTATGTGATTACTCTA  
TTTAGTCTATTATTAATTTTGTTCGAGTGTCTGCCGCCCGGGCAGGTACG  
CGGGGAGGTGCCGCTGTTGCTGCTCGTGTGAATCTAGAACCGTAGCCAG  
ACATGGGACTGGAGGACGAGCAAAAGATGCTTACCGAATCCGGAGATCCT  
GAGGAGGAGGAAGAGGAAGAGGAGGAATTAGTGGATCCCCTAACAACAGT  
GAGAGAGCAATGCGAGCAGTTGGAGAAATGTGTAAAGGCCCGGGAGCGGC  
TAGAGCTCTGTGATGAGCGTGTATCCTCTCGATCACATACAGAAGAGGAT  
TGCACGGAGGAGCTCTTGACTTCTTGCAATGCGAGGGACCAATTGCGTGGC  
CCACAACTCTTTAACTTGAATAAATGTGTGGACTTAATTCACCCC



Table 2

AGTCTTCATCATTTGGGCATCAGAATATTTCTTATGGTTTTGGATGTAC  
CTG

>Sequence 439

CTATGTACTACTCATCTCTANTCTGTATTGGACTACGTACTCGTGTTCAT  
AAATCTAATCCATCTTCTCTCTGTAGTACGTACTTTGATTCCTATTGA  
GTAGTCATTTTCATGTTTATATTTTATATCATATCGTATCNTATCNCACT  
TGTTTGTGTGCAGTCCATCTGGTGGCGGCCGAGGTACTCTGTGATTTACC  
TAGATTTGGAGAAGGTGAGGGAGGAAAGGCTGTCCTCTTTGATCCCATAC  
CATGCAGGGGCCAAATGGCTGCCAGCATAACAAAATAAGAAGGAAAGAAAG  
AAAAGTGGGCCAGGCGCAGTGGCTCACTCCTGTAATCCTAGCACTTTGGG  
AGGCCGAGGTGGGCAGATTACTTGAGGTCAGGAGTTCAAAACCAACCTGG  
CCATCATGGTGAACCCCGCCCCACCAAAAATACAAAAATTAGTGGGGC  
GTGGTGGTGTATGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAG  
AATCGCTTGAACCCCAAGAGGCAGAGGGTGCAGTGAGCCGAGATCGTGCCA  
CTGCACTCCAACCTGTGCGACAGAGCAAGACTCTGGGAAAAAAAAATAAA  
CATAAAAAAAGGAAGGAAGGAAGGGGAAAGAAAAAGTGGCCTCACAATGAT  
TTGCAACAACCTATTACAAAAAGAAATGAAAGATGGAAGTCAAAGAAA  
GAAAGG

>Sequence 440

TGGTGTATGTGCCTGACCCGGGGCGGCCGAGGTACGCGGGATGTCTAAAT  
ATCTTGTAATAAAGTGTTAAATAAACAAACCCAGTCAATTAATAAATTTG  
ACTGTTATTGAGAAAACCTCCAATGAGGGAAATAATAAGATCTATAAAGGT  
CTTAAGAAAAATATAATTTGAAAAAACATGTGGCTGAGTGTGGTGGCTC  
ACGCCTATAATCCAGCACTTTGGGTGGCCTAGGTGGGCAGATTGCTCGA  
GTCCAGGAGTTTAAGACCAGCCTGGGCAACATGGCAAAACCTGTCTCTA  
CAAAAAATTAGCCAGGTGTGGTGGGACACGCCTGTAGTCCCAGCTACTCA  
GGAGGCTGAGGCAGGAGGATAGGTTGAGCCTGGAAGATCGAGGCTGCAGT  
AAGCTGTGATCACACCACTGCACTTTAGACTGGGCAAAATAATTGTTTAA  
TGATAAATGAGGTTCTTGCCCG

>Sequence 441

CGGATGTGANNATTGATATAGCGACTCCACCGCGNGGCGGCCGAGGTAC  
ATTGTAGCTTTGAACTCAGTGTTTAAAAATCAATCTGGTTACACACTCT  
ATCTTCTAGATCCCTTGAGACACTGTCTTCTTGAATAAGGGCCAGGTGA  
AATGGCATTTCAGCTGTGGAAGGATTTTCTCCAGGGAATTCTTGGTGACC  
TCACTCATGACTGCCCTCTGTGTCTCTGCTGTTCCGAAAAGCTGGTGACC  
AGGCTGATTTGTTCTTCAGAAGTCTTCTGTCTGCCCCCGCTACTGTTT  
CTGCAGGTAAAGGCAGGACTGGAACCTCCTCCACAGCTTGACATAGTTT  
CAGATTCAACACTAATTCTCCGAGTTTAAGATGTGCCTGGGCAGCATAA  
AGCTGTGCTTCTTTTGTCTTCTGCTTTTAAAAATGATCTTTGCTAAATC  
CAGCATATCCCAGGCAAGCTTAGGTTCCCAATCTCCTCCTCCTCATTTT  
CTTGAAGAGACTTGTTTTCAAGGACTGAATCATTTGGCATTTCTTCAAGTC  
TTATCATTTTCTTTATCATCCTCTTCCGAGCCTTCAGTTTCTTACCCTC  
TTTCATCTGGTCTTCTCTCTCTTGGGGCTCTTCATTAGCAGCTATCTGAA  
CTTTGGCTTCAGGTGATTTCTCAGTAGCTCCCTGGGCTACCTTGGTAATA  
ACCCCATCTCCAGCTGCCTCAAACTCTTTTACAGACAGCNTAGTCTCCTT  
CTGACTGGGAACCAAGCTTTGCCCTGACTTCTNCTTTAGATCCG

>Sequence 442

CGGCCATCCGCATCATATCTGCTGTGATCCAAAGNTTTTCAACGTCACTA  
ACTATGAGTCAAGTGTGATCGGCTTNTCGCNCNAAAANANNNAAGG  
TGTGAAGTTCGTATGCACTGCACCGGGGGCGGCCGCCCGGGCACGTACTT  
TTGCTGCTGAGGAATGGAATCAAAAGAACGTAAGTCTCCTGGTAACCACT  
CAGATCTCTATTATTAGGCTAGATGTGGGGCGGGTGAATCCCCAGCTTC  
TTGCTCTCGACCCTGCACTGTAAGTTGCCCTTCTATTAGCAGCCAAGGAA  
AAGGAAACATGAGCTTATCCAGAACGGTGGCAGAGTCTCCTTGGCAATC  
AACCAACGTTGCTATGAAATATGCCTCACACTGTATAGCTCATTATAGGA  
CGTCAGGTTTGTGAAAAAAGTGGGCAAGACATGATTAATGAATCAGAAT

Table 2

CCTGTTTCATTGGTGA CTGGATAAAGACTTTTAAATTTTAAAAAAAAT  
ATTCATGGAATAGGGTCCT

>Sequence 443

TGCTGATAGNGTCCTCACCGCGGGCGGCCGAGGTACATGAGAGACACTT  
TAAGCAGGCTCACAGGAATAGAGTGAGTGCGGACTCAGATTGTTTAAAGCT  
ATCTCTGAACCCATTCTACTGCGTTTAACTATTTTATTGGTTTCTAACT  
ACTACCACAGACACGGATACCTCACAGGTTCCATTATTACTCACAGCGTT  
GTGGTCCGGGTTTCATCGCCATCCTGCTCCACGCTGTCATAATCCTCACGC  
ATCCGCGCTCGGGACCCCTCTTCTATAAGGGACATACAGGATCACC GA  
AAACTCCTCCTTTCTCCCATTTGTTCTATGAGGTGGGTGGGACTCCAAA  
ACCCGTAGCTCCTGCCCTAC

>Sequence 444

TCGTTCTCATACTATTATAATTGTATTCTACTATCTTACATTATCGTATC  
GTCTTAATGATTCTAGTATCTATTGTTCTGAATATTTATTATCATAAACT  
AATATCANNANNNNTTGTGTTTATTCTGATCGGACTCCACCGCGGTGG  
CGGCCGAGGTACCCAGCCCCACCCAGGCAAAACAGTCCGACATGTTTCGT  
AAGTGAGACAAGCCAGTGCAAGTTTTTTTTTCTTTGTTTTGGGCTT  
ACCTTCTTGCTTAATGGAATTGTTATGGCTAAGCACATAGAAGGCCAAAA  
AAGGAGTTTTTCAAACCCAGCAAATCAAGTGCTTGGATTCTGAACTGCCA  
AAAGAAAACCTGCACTTCCCTCTTAAGTAAAACGAAATGAGTTTCTTAGG  
TAAATGTATTTCATCAGCCCAGATAAAAAAAAAAACAGTTATGTGAGCGTT  
AGTCACTGCTCATTTCCAGGAAGATCAAACAAAATACCAGCCCAGCCAGA  
CTCACATGTGTGTATATATATAAAGCAAAGAGCCCCGCCACAAGCCA  
GCAGCTGGGTGAAATATCAGCTGTCCACGCGGTGATTCCAATTCGGGG  
AAATTACCTCCTTGGA AAAACTGGAAAAATTATTTGTTGAAAAAAACTT  
ATTTGATAAAAGTGT TTT

>Sequence 445

TGACGATNAGATCGGAGTCCTCACCGCGGTGGCGGCCCGCCGCGGCAGGTA  
CTTTACTAAAATGACTGCATTCTTTGGATTCTTCAGTCTATGGTTCAAG  
TCACTAAAGATTCA TTTTGTGAGTCCTTATGAGAAACAGCAGTATGAA  
TCTTGACGGTTTCTGCCCGTCTAATGGCAGAGCTCTCTGACTTGGGTGT  
ATGCTACCAGGCTGGGTTC AAGTGAGAA GTTCTGGTCAGTCTTCTGTGGG  
TTGAAGGTTCAATATCAATTCTGTTTCAAAGCCTTTGTGATGCTATTTGA  
ATCTTTGCTCGGTATATGCCACCCAGTGGTCAGTCTGGGACCTAGGTGGT  
GAGCTATCCCATAGTTTCACTTCTCAACGCTTTACTGCACTGTTTAGGGTC  
AGATACACATATATACAAC TTTGGGTGAGCTCAGGAGTTTATAAGCTT  
TATGGGCTTGGTGT TTTGATTATATAAACAGGAGTTTATAGAACTTTATGG  
GTTTGCTTCC TTTTCTGCCAGTTCCTTGTATTTTCCAGCCCTTAAAC  
TCCTTTTGGGTCTGTGTTCAAAGCTGGTCTTAGTTACCTACTTGT  
GACCAGTTTCACAGTGTG

>Sequence 446

TGATGATGATTCCCTNATCCGGTGGCGGCCGAGGTACGCGGGGAGACACA  
ACTTCCTGGGCTTAGATATTT CAGAATATCACA ACTAACTCTTAAAAAT  
TTCTGAAGGCTGGACACCGTGGCTCACACCTATAATCCAGCACTTTGGG  
AGGCTGAGGCAGGCAGATTGACTGAGCTCAGGAGTTCAAAACCAGCCTGG  
GCAACATGGCGTAACCTCGTCTCTACAAAAAATGCAAACATTTGCTGGGC  
TTGGTGATGTGTGCCTGCAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAG  
AATCGCTAGAACCCATGAGGTGTAGGCTGCAGTGAGTCATGTTTGCACCA  
CTGCAGTCCAGCCTGGGTGACAGTGTGTATTAGTTTGT TTTTCATGCTGCT  
GATAAAGACATACCTGAAACTGGGAACAGAAAGAGGTCTAATTGGACTTA  
CAGTTCCACATGACTGGGGAGGCCTCAAAATCACGGTGAGAGGTGAAAGG  
CACTTTTTACATTGGCAACAAGAGAAAAATGAGGAATAAGCAAAAGCAGA  
AACCCTGATAAGCCCATCAGAATCTATGAGACTTATCACTATCACAGA  
ATAGCC

>Sequence 447

ATTATACTTACCTCTTAGATTTATTTATCTCAAGAATATATCGATTTTCAT

Table 2

CTTTTATACTTANTTGTACATATTTTTTAATTATATATTCTATTTATTAT  
TATACAAACNATCTAATGCGTTGTATCTTCTCCGGTGGCGGACGAGGTAC  
GTTTTGTGACAGGCAATAAAATTTTAAGAATTCTTAAGTCTAAGGGACTT  
GCTCCTGATCTTCTGAAGATCTCTACCATTTAATTAAGAAAGCAGTTGC  
TGGTCGAAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTC  
GTCTGATTCTAATAGAGAGCCGGGTTACCGTTTGGCTCGATATTATAAG  
ACCAAGCGAGTCCCTCCCTCCCAATTGGAAATATGAATCATCTACAGCCTC  
TGCCCTGGTCGCATAAAATTTGTC

&gt;Sequence 448

TGGGGATGTGCCTCTCTGTGGGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTGTAGTGTCTTCTGATGTCTTTTCTAACAAATCTTTCCTG  
CCCAAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTTAGCTTTAGCT  
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&gt;Sequence 449

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&gt;Sequence 450

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&gt;Sequence 451

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&gt;Sequence 452

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Table 2

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GAGTAAAAGGGGAAGGAGGAAAAGGGTCCAGTGCCACTGGACAGTCACCT  
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>Sequence 453

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>Sequence 454

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>Sequence 456

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Table 2

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CCTTTTTT  
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Table 2

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>Sequence 466

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>Sequence 467

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>Sequence 468

Table 2

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>Sequence 472

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CATG

>Sequence 473

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Table 2

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Table 2

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>Sequence 484  
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Table 2

GCTTTATTGGGCAACAGCAACGAGCCACGCTGGCAAACAATGAAAGTAGA  
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TACAGTTAACCCCACTGCACAAAATAATAAATTAGCCATAATTTGGTTTT  
TTTTGAAAAACCATGCCCCCACCTGACCCCAACAACAGGTAAGTGG  
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>Sequence 485

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TCTTTTGTATGAAGAAAATAATACAGAGGAAATAACAACAATAAACCT  
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CCTTGGGTGGGAGATTATTGCTTGATATACTTCTATTTGCCACACATTTT  
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G

>Sequence 486

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CGGGTGGCGGCCGCCCGGGCAGGTACGCGGGAGTGTGGATTGAACAGAAA  
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CAACGCAGAGTAGAAGGAGAGGGTGACTTTACCGAAGTACAGCCATTGG  
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>Sequence 487

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>Sequence 488

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Table 2

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CCCCTCATTTGGTGGCCAGTGAAACCTCCACCCCAGCAAGGGCCTTTCTGG  
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>Sequence 489

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>Sequence 490

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>Sequence 491

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CACTTGAGCCCAGGAGTTTGAGACCAGGCTGGGTAACACAGGGAGGACCC  
CGTCTCAAAATATTTAAAAAATTAATCATGCGTAGTGGTGCAATTCCTTGGG  
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>Sequence 492

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CGGGAGGTGGAGGTTGCAGTGAGCCGAGATCACGCCACTGCATTCCAGCC  
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Table 2

## &gt;Sequence 493

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GAAAAACAGCAGACAAACTGCAAGAATTTCTTGGGCAGGGCCTGGGGAA  
TGCTTTTTTATCTCATATTAGTGCCTGTGATGGCATCTTTCATCTAACAC  
GTGCTTTTGAAGATGATGATATCACGCACGTTGAAGGAAGTGTAGATCCT  
ATTCGAGATATAGAAATAATACATGAAGAGCTTCAGCTTAAAGATGAGGA  
AATGATTGGGCCCATTTATAGATAAACTAGAAAAGTGCCTGTGAGAGGAG  
GAGATAAAAAAATAAAACCTGAATATGATATAATGTGCAAAGTAAATCC  
TGGGTTATTAGATCAAAAGAAACCTGTTGCTTCTATCATGATTGGAATG  
ACAAAGAATTGAAAGTGTGAATAAACACTTATTTTTGACTTC

## &gt;Sequence 494

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GCGGTTGAGCGGTCGTCCGGTCAGGTACATATACATTATGTAATTAATA  
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GTACGCAAATTATGTTTTTGGATGAATTTTCAAAATTTGTCATAATAGAC  
TTATATTCAGTTAAACTTGTATAATTTTTGGAATTTTAAACTTGTGACA  
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## &gt;Sequence 495

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AACGATTTAAAACTTAATTTAAAAATGAGAGAAGAGTATGACAAAATTCA  
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AACTAATAAAAAATTTTCAAGATATCCCAACCTTTGAACACCTGGTTT  
AACTTTAAAAAATTTTGAAGGTAAAGGGCCCCCCCCCTTATT  
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## &gt;Sequence 496

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CTCCAAGCCCAAGCTTTTGCAGGTAAGTGGAGCGCTTCCTCATTTGCATA  
ATAGGCAGTTTCAATAACTGGGGACTTTTCTTCAAGACCACACACAGG  
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## &gt;Sequence 497

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CGCACATTGGATGTCTTGTGGAACATCATGAATCAACACACATAGTACCC  
CAGCTGTGATAACGCATGGAGATACACATGGCATGGGGCTGCATATAGGT  
TGGATTTGAAGCCGAAACAAGAGGTCCCTACTGAAATGAGCATTGAAACA  
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GCCCTGCGCCGGAACGCGGCACATGAAGCAACTAGGCGGTAATTCTACAC  
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Table 2

CAAGCTTTTTTTGGTTTCCCCCTTATATAGGTTGGAGGGGGGTTTAAAA  
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>Sequence 503  
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GTTTCTACCCCTGGTTGGTGAAAAAATTTGTTTTATTCCCCGGCTTCCAAC  
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Table 2

GTTTGGAGTCTTTAAACCTCCACCCATTTAAATTTGGCGGTTTGGCGGCC  
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AGCTAAAAAGGCCAGGTAACCCG  
>Sequence 505  
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>Sequence 506  
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TTACCAAGTTCTAAGCCAGCTCCTTTTAAAGCCTACGTCTATGTAAACCC  
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Table 2

TATCGTTGTA

&gt;Sequence 509

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TATTCTACTNTTNCATCTTTTCACTTCNNANGCAAACACNNCCTCENNCT  
TANNCTTTNNANTCAATNCANTTNNCTTAATNNAATCACAAANTNTCC  
TCCATTACNCANNAANNTNTNNCATTCAANNCCACAATCCGGGGGGGGG  
GGTNNCTNNGCCACATCANCAAAAATCACATCCACCATTCGNATCCNCN  
TACCTGCCCC

&gt;Sequence 510

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AGGACATTCTCATTTAAACAGTTTAAANAGGCGGGGTGCGGGAGGCGGAA  
AAAAAGAAATATACCCTGGCAGCGCTGCCGGCCGGAAGCGGAGAGGGAC  
GCTAAGATCAGCAAAATCGCCAGTTTGGATCCTTGTCTTTTCCGCCCTT  
TTCCCCCATTTAAATCCAGAACCCGTACATGATAATTAAGAGGGGGCGG  
CAGTTCCGGCTGCTCAAACGACTGCGGTAGAGGATCCCCCGCGTACCT

&gt;Sequence 511

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AGTGCAGTAAACCAAAATCACAGCTCACTGCAAGGGCACACATCACTATTC  
CCAGCTAATTAATAAAATTTTTTTTTCATACAGATAGAGTCTTGCCATG  
TTGCCCAGACTGGTCTCAAAGCCCCGGAACCATGNTTCTTTGGGCGGGG  
GCCCCCAAAGGGCNGAGAAAACAGCCACGACCCACGGCACCAAGCNCGA  
NNGAGGGCGGGGAGACGCCGCCAAAAGCAAAACGGCGGCCAAANCNGAG  
GGAGCAANNCGGGGCGAAAAGGNAAACGGAACCAACCAAGAAAGAAACCA  
AAAGAAAACCGGAGCACACAGGGGGAACCGCGCC

&gt;Sequence 512

TGGCT

&gt;Sequence 513

NGCGTTAGGAGCACTCCGCGGNGGCGCTGGANNGTTTGATCAGGACGCCC  
CGNAGNCACCGACGAGGACCAGACGCTGNNANGAACATTTATTCAAAGCC  
CACCCGGNCACAGCCCNAAAGGCCAACCTTTTTTGGAGGNGCCNCGGANG  
CAAACCGAAAAAAGCNGGAAAAANNGAGGAGNNGAAGCCAAACAGCCAA  
ANNCGCCANNAGGAAGNNGNAAAGGGTTTTTCNAGTTTTTTNNGGGTT  
GTAGANCACACCCCNNGAAAAAGNCCGGGAGGACGCCCCAGAACGAGGGG  
GGGGGGGGGGCCGCAAGAAGGGGAGANCAAGCANNANCGANACCGGCGACC  
CCGAGGGGGGGCCCGNACCCAGGCGGGGGCCCCCAAGGGAGGGGAAACN  
GCGCGCGGGGGGAAACAGGGGCAAAAGCGGGCCCCGGGGGAAAGGGAA  
GCGGCGACAAGGGAAACAGCAAAACGAGGCCGGGAGGCAAAAGGGAAAAGC  
CGGGGGGGGCCAAGGAGGGGGGGGAAACGAAAAGAGAGGGGGGGGGGCA  
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&gt;Sequence 514

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TCTTCAGTGTCTTCAGCAAAGGACAACCTCTCCAGCTCTGCCTGATAGAA  
CTTCTGACAGTATTCTTTAAAGTCTGGAAGGAAATCACACGTCTTTTCTC  
CAAAGAGTCTGTTGGCAGTTCTAAGCAAGTACGCGGGGTAAAGCAGGAAGT  
GAAACCACAGAGCTTCAAAAAAAGAGCGGGACAGGGACAAGCGTATCTAA  
GAGGCTGAACATGAATCCACAGATCAGAAATCCGATGGAGCGGATGTATC  
GAGACACATTCTACGACAACCTTGAAAAACGAACCCATCCTCTATGGTCGG  
AGTACACTTTGGCTGTGCTATGAAGTGAATAAAGAGGGGGCGCTCAAA  
TCTCCTTTGGGACACAGGGGTCTTTCGAGGCCAGGTGTATTTTCGAGCCTC  
AGTACCT

&gt;Sequence 515

Table 2

GCGATTGGAGCTCCCCGCGGTGGCGGTTCGAGGTACGCGGGGACGGCGGAG  
CTGGCTCTCAGTGGAGGCGGGTTAATTTGCCCCACCGGAATGATCACCA  
AGACACACAAAAGTAGACCTTGGGCTCCCAGAGAAGAAAAAGAAGAAAA  
GTGGTCAAAGAACCAGAGACTCGATACTCAGTTTTAAACAATGATGATTA  
CTTTGCTGATGTTTCTCCTTAAGAGCTACATCCCCCTCTAAGAGTGTGG  
CCCATGGGCAGGCACCTGAGATGCCTCTAGTGAAGAAAAAAAAAAAAA  
AAAAAAGTACCTGCCCGGGCGGCCGCTCGACGTGGTCGCGGCCGAGGTAC  
AACTGCAGTAAGAGGGACGGTTAATTCACAGCTTCCAGCTCTTGGCGCCA  
GAGTCCGATGCACTCCTGCAGATAACGGTCATTTCATTCCGGGAGAACC  
TCTTCGAAAAACAACCCGGATGAGACTATCTGGCAAATTGCAGCCCTTGG  
CGGGCTTTTCAAATAGAGCGTTGACCAATCAAAGAAGGGGGACGTTACAG  
GCACTGAAAGAATAACC

>Sequence 516

TTTTGCTCTTGTAGCCCAGGCTGGAGTGCAATGGCAGGATCTCAGATCAC  
TGCAACCTCTGCCTCCTGGGTTCAAGCGATTTTCTGCTTCATCTTCCCA  
GGTAGCTGGGATTACAGGCATGTGCCACAACGCCTGGCTAATTTGTATT  
TTTAGTAGAGACTGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTCC  
GACCTCAGGTGATCCGCCCCGCTCGGCCCTCTAAAGTGCTGGGATTACAG  
GCGTGAGCCACTGCGCCCAGCTATACTGTATATTTAAGAAGTTCAGCA  
TGTTGCATCTCTGCATTTATCCTATATCATTAAAAGAACATAAGTTATCA  
TGGTGTGGGTAAATTAGCGAAATCAACCCTTCTAGGTTTAGGGGAAAG  
TTATTTTTAAAAACAACCTTAATAAACTTACACTCTTATACAAGAGTGAT  
TTCCCTTATTAGGATGCATGTTGATTAACTCGAGATACAGCTTTTTGC  
AGATGGGGGTTGGGTTTGGTGTAACCTCTTTAACATGTCACACTGGTTT  
TCAAGATTAAGAAAATATTGAGTTTGAGTGTGTTTAATAACTTTCTGAGT  
TTTTAGAAGTCTTATTATTTTTAAAGAACTTAATAAAGGTCTAGATTGAC  
AAAN

>Sequence 517

AGGTACGCGGGTGTGATCCAGTCTTGTCTTTCAACGAGAAGGATTTGG  
ACGTACAGATATGTAGAAAAACGCACAAAGCAATTTTCAGATGCCAGTC  
AATTGGATTTTCGTTAAAAACAGAAAATCAAAAAGCATGGATTAGTAGCT  
GACGAGACTAACTCAATACAGTGGATGACTAGAAAGCAGGTTCTCCAG  
CAGAGATGTGGGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCATTGGAGA  
GTCTGCAGACCGCAGTTGCCGAGGTGACTTTGAATGGGGATATTCTTTT  
CATCGTCCA

>Sequence 518

CACNCAGNAGGCCTCNNAAGCAGGACTAGGCACANCC  
CCCCGGGGGAAGGGNNGAAGGGAGGGCTTTGAGGGCNGAGGGGGAAGCCC  
CGGAAAGNNNNCCNCCANCCAGGGGAGAAGAGACNCGNAGGGACACGCC  
AAGGAGAGGGAACAGGGGAACCANCACTTTTGTCTTTGGGGGGCACNGN  
GCAGGGACCCCCACAAAAAAGACCNCCCCCAGGAGGGGGGGGGGCA  
AGCGGAAAAAAAAAACAAGACCCAAAGAAAAAACAAGGGCACACAAAG  
CAAACGGCAAAACCCGGAACCTGCCCGGGCGGCCGCCAAAAACAGGGG  
ACCCCCCGGGCCGAGGAACGCGAAAAACAAGCCAACCGACCCCGCGGACC  
CGCAAGGGGGGGCCCCGGGCCCCAGCATAGGAACCTAAGGGGAGGCGAAC  
GGCGCCCCCGGGGAACAGGGGCAAGGCCGGCGCCGGGGGAAAGGGGAA  
GCCCCGAACAGGCCACCAGAACGGGCCCGAGCAAAAAGGGGAAACCCGG  
GGGGGCCAAAGGGGGGGCCAACCAACATAAAAGGCGGGGGGCCAGACCC  
GCGGACAAGAGGAAAAACCGGGCGCCCGA

>Sequence 519

TCCCTCCCCAGGGATCCCGGTTTCGAAGGTGCGCTTTGCCTCCGTTTAA  
ATAACTCAAGGGGGGAGACGGTTTTCCCGGAGTCGGGTTTACCCTTGAAG  
ACGTGTAGCGAAATCCCCCAAAGGCGGGAACCCAAAAAAGAACCCTGT  
TCGAGGGTTCCATAGGN

>Sequence 520

GGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACTATGTTGAATAAAT



Table 2

GTTTTTTTCCCTTTTAAATTTTCTGCTTCCCTAGTGTCATAGAATTGAACT  
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AGCCTGAGTGATGGAGTGAGAACCTGCCTCAATTAATAAAAAAAAAAAAAAGA  
AAGAAAAAACAGTGCACTGGCTCATGCCTGTCAATCCCAACAGTTTGGAA  
GCCAAGGCAAGAGGATTCCCAGGAGTTCAAGACCAGCCTAGGCAACTTAG  
CAAGACCTTGATCTTCCAAAAACITTAATAATTAGTTGTGTGTGGTGTG  
CCTGGCTGAGATGAGAGGATTGCTTGATCCAGGAGGTGGAGGCTGAAGTG  
AGCTATGATTGGGGCACAGCAATCCAGCCTGGGGGAAAAGGGAACCTGT  
CTTAATAAAAAAAAAAAAAAGAGACCAGGCGCTTTAAACTAGGGAAT  
CCCCGGGCTGAGGAATTCAATTTAACTTATTGAATCCGTCACCTTAAGGG  
GGGCCGTCCCAATTTTGTCTTTAATGGGGAAATTCGCCTTTGGAAA  
AAAGGAATAGTTTTCTGAGAAATTTTATCGTTAAATTCCAAACATACG  
GC

>Sequence 521

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CGATGAAGAACGCAGCTAGCTGCGAGAATTAATGTGAATTGCAGGACACA  
TTGATCATCGACACTTCGAACGCACTTGCGGCCCGGGTTCCTCCCGGAG  
CTACGCCTGTCTGAGCGTCGCTTCAAAAAAAAAAAAAAAAAAAAAAG  
GTCCCT

>Sequence 522

AGGTACACCTCCCCAAGCTCTTCTCCTCCGGCTCTAGCTATATAAGACGT  
GCCTGCTTCCCCTTCGCCTTCCACCAAGACTGTAAGTTTCTGAGGCCTC  
CCCAGCTTCTGTCATGCTTCTGTGCAGCCTGCAGAACTGTAAGTCAATT  
AAACCTCTTTTCTTTATAAATTACCCAGTCTCAGGTAGTTCTTCACAGCA  
ATGTGAGAACAGCTAACAAACAATCAACTCATGGCTTTAACACAAAAAA  
ATAGGTAAGTTCAAAATTAACATATTACCACATCCAACTTCTTTATTCTT  
GAGAAAACAAAAAGTCCAAAATCAAAGGAAAGCACCCGTTTAAACCTT  
CATATCTTTCTCAGGGCTCACTGCAGTCTGGCCATATCTCAAGCAGGTCT

>Sequence 523

TTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAGTGA  
GAGGGAACGAGAGTAAGAGAAAGAAAGAGTGAAGGGATGTAAACTCGAA  
TAAATTTCAAAGTGCTCCGAGGGATGCAACGGGCAAAACTGAACTGTT  
CAGGCTTCAGATTGTAAGTACGATCTGAGGAAAAATGAGGTTTGTGTGA  
TTTTGCTAAATGCATACCAACAGCGAATGGCTGCCTTAGGGACGGACA  
AAGAGCTGAGTGATTACTGGATTTCACTGCGATGTTTTACCTCCTGTG  
AGCAGTGGGAAAAATGGACCAACTTCTTTGGCAAGTGGACATTTACTGG  
CTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCTGGGGGAATGGAGGAC  
ATCCAAGCCCGTCCAGGA

>Sequence 524

AGGTACGCGGGGCTCTTGAGGAGTGAGACTGCAGGAGATGTGGGCCGTGC  
CAAAGAGATGGATGAGACTGTTGCTGAGTTCATCAAGAGGACCATCTTGA  
AAATCCCCATGAATGAACTGACAACAATCCTGAAGGCCTGGGATTTTTTG  
TCTGAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGT  
AGTTCAGCACTTGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTG  
ATGCTGCCCTGTTAGACATCATTTGTAAGTGCTGGAGTGCAGTAACGCCA  
TCTCAGCTACCGCGACCTCTGCCTCCTGGATTCAAGTGATTCTCCAACC  
TTAGCCTCCCGAGTAGCTGGGACTATAGCAGTGCACCACCATATATGCAA  
TTTCAT

>Sequence 525

GCGTTAGNAGCNCTGCGNCTGTGGCGNCTTCCGATCNTTCGNGAGCTTT  
ACGGNCCCNCGGCCAGNNACCCATTTTTTNNGANGNAGTTNGAGGCGG  
GGCCTCCCGAGCCNGGAGAGGAAGGAGACNGTTTTTNNAGNGCCCGG  
GGGCCACACCCCAAAAACCCCGAGCCCGCAANNNGCACCGGACANAACA  
NNCGCGNGGGCGCAAAACANCAACNGGGAACANCCCCGAGGGAACCGCC  
CTTTTTTTTTTTTTTGTGTTTCGCAANNAGGGNGCCNNGCGGCCACAA  
GAAAGACAACCAAGGCCCCCGGGGAGANCGGGNGCAGGCCCAACTTTC

Table 2

TGTGGGGGTGTNCTTGNGGGACCACACATCTTTCCTTCTGGTGGGCAAC  
ATTCACCTGGGCTGAGCGAATGGGCACCTCANTGCACAGAGAGGTGGCTT  
CTGAGGACCCAGCTTCCCTCTCCAAAGAGTGGATCATTTCCTTGTTCAAA  
GATCCAGGGACCCTGACCGTTCCTACCTTTTTGCTGAAGAGATTTATGAC  
CGGCAAGGTGGAGCCCCTGGGGCCTGGAATGAGCCTCTCCTGAAACACTG  
GGGGCCCGGAATTCCACGCCCCTTGGCGCAGGTCACACAGCCCCGGGTCC  
TTCGCCCTGGGTTGGCTTAGGGCCTCCTGGCATTCTGGAGGGGCCCTAT  
TCTAATACCAGCCCTCATCAAATTGGGGCTACAACCCCAAGGCCCTCTGG  
ATC

>Sequence 526

GCGATTGGAGCACTACGCGGTGGCGGTTGAGGGACATGACATGCCACCAG  
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GACATGTAAGCAGCATCATGGAGGTAAGTTTTGACCTTGAGAAAATGTT  
TTTGTTCACCTGCTCTGAGGACTATTTATAGACAGCTCTAACATGATAAC  
CCTCACTATGTGGAGAACATTGACAGAGTAACATTTTTTTGGGGAAGAA  
GAATCCTACAGGGTCATGTTCCCTTCTCCTGTGGAGTGGGGGGGGAAGGT  
GTATGGCCCCAGGGATGGCCATATTACTGACCCTCTACAGAGAGGGCAAA  
GGAAGTCCAGTATGGTATTGCAGGATAAAGGCAGGTGGTTACCCACATT  
ACCTGCAAGGCTTTGATCTTCTTCTGCCATTTCCACATTGGACATCTCT  
GCTGAGGAGAGAAAATGAACCACTCTTTTCCCTTTGATAATGGGGGTTTA  
TTCTTTAGACAGAAGAGAGGAGTTATACAGCTCTGGAACATCCCATTC  
TGTATGGGGACTGTGTTTGCCTTTTAGAGGTCCCAAGCCCATAGAGGAGA  
TAAAGGGGAACAGAATTGTATAACTTGATATAATGATCCTAGATAGATGG  
AACTACAAGGGGCTCGAACCCAGAGAGAGGGGGGACTTTGCTT

>Sequence 527

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GGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTT  
TGTGAACCTTCTCCAAATAAGAACAAGGACACACATTGTGTCAAGTACGA  
AGATCATTCACTTTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTG  
TGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATCTATTTCTT  
CCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAGT  
TTT

>Sequence 528

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CCTCTCCCAACACCANGCCNAACNNAAACTTATGNANAAGAGNGAAANAG  
GACCCAAAAAGGACAAAAGGGNNCANNCANAAAAACAAANNNCCAANAAN  
CCGGCCAAANAANANGCAAAAGNNCCCCCATTTTTTTTTTTGTGTGTG  
AAAAGGGAAGAACCTAATGCACGCTTAACATCTTAACAGGGTGGGAGTG  
CAAGAGATTGATGAGTCCAAATCTGACCAAGATGGTGATGTTGGATAAGA  
GAATTCTCTGGTTCCACCTTTAAGTGGCCAGCCCTTCTAGAGGTACCTG  
GGGAGCAACCCGGCTAGGTACATCAAACATG

>Sequence 529

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AGGTACATTGTATACTGCAGTGTCTGCTACATGGCATTGGACAGGACATA  
ATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGG  
CAACGTGACCAATTTTTGGTCTCAAGTTAAATACCAAAAACTATTACAG  
TGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCCAAC  
ATTACTGGCGTGCTTTTTGTTTGGCTTTTGGGGCCTTTTGGTGCTGCC  
TATTAATTACGGCGCTGGTTTTGGTTTGTGTTAATACGCTTATTTATAC  
TATTGGTGTTTACATTGGGGATTACAGAATACCTTCTCTTAGGGGGATAC  
CGACATTCATTATTGGTGGAGTTCCTCGATTCTCAATACTTTGATTGCC  
CACGG

>Sequence 530

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GAAGCTTTATTCTATGAACCCCTTCCAGGGTGTCTGTTCAAGGCCCTGAAGA  
ATTTGCAGAGGGGTTAGTGATTGGAGTGAGAAGCCTCTTTGGACACACAG

Table 2

TAGGTGGTGCAGCAGGAGTTGTATCTCGAATCACCGGTTCTGTTGGGAAA  
GGTTTGGCAGCAATTACAATGGACAAGGAATATCAGCAAAAAAAAAAAAAA  
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>Sequence 531

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GACAGNAATAAGGANTNNNAACAAAAACAATTTCCACCCGACAGTAGNCACC  
TTTACACNGAGGANAACGGGAACCTTTATTTAAAGGATATTGTCTCATTTT  
TAACACNCNGNAANCCANCCTTCCCTGATAATAAATCACTGGAGAACAAA  
AGCGAATAACAGCAGGTCTCTCTTTTTTATTCCAATTTCTTACATTTATT  
GCCAATGAAGAATTCAAATGCCAAGGGCCCTGCCTAGAAAGCCACTCTAA  
AGCAACAAAAGAGGTCTGCCAATTGCTTAAAAAACAAACCCCCAAGAGAA  
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CAATTACTTCATAATTACGACACACCACATATTCACCCACACAGGTGTAT  
ACCACTCATATAACCTCACTCATAAACACACATCAACACTAGACAGACTA  
CATAATCAACATCCACAACCTCATCAACAAACACTTAAAATGTTCAACA  
AATATAACTACCACACCTAATACACCAAGCTTGTACTACACTCATATAAA  
CAAATCTCGTAACACTCACTTATACTCTACAACACTCTCATTTCACTTA  
CACACAAACACCTCTTATTATCTCTCATATCAATCAATAATCATTGACT  
ATCATACACAACGTATACTACTTCAATAGAACTANACTCACCAATCTTCC  
ATAACTACACGCCG

>Sequence 532

CGAATGTCATTGAAAAGGTCTTCTCGCGCGTTGAGAACTTTCGGTGNNTN  
GGGAGNGNGATATTTTTTTTATTCAATTCGCGATTGACAGNNNNAGATCAA  
AATGTTATTAACACTCTTAGAAGACTGGTTTGTTCATTGACATTGGGAC  
GTGCACCAATTTTTATTACAAAAATCAAAAAAGTAAAAATTATTACAATA  
TTTGCAGAGTATAACCACTAGTTGCCTAGACAAAAGCTAATTTCTACAAA  
ATCAAAAACTTAATGCAGTTTTTATTAAGAGAGTCAAAATCTCTCAGTTA  
ACTGGATATACATAGTGGTATATATCTTAAAGCAGAAAACCCCAAAAAAC  
AAAAACAAGGAAAAAAGAAAAATACATGTCAACAGTCAGTTAAATATTTTG  
ACCTGACAGTTTCTACAAATAGTGATTTTCACTACATATAAAGGAATCTG  
TTACATGTGGTAAAACTTCCAGAAACCAAGTAGGAAGTGTGGAATAAAAA  
CAATAAATTCAAACGCAGCCCCAGGCTGGGCCTGTTTTTCATGAAGCCCA  
AGACAGTGATCTTTATTATTAAGGAGGGACCACTGTGTCCACAATAAAA  
ACCTTCAACCACATGGTGATCTGCAAAGCTTTATTTGAAAAAGACAAACA  
TTCITTTCTTTCACACAAATCAATGCAAGAAATTTTTTTAAGGCTTGTACC  
TTCCCGGGCGGGCCGTTTTTTAAAAAACTTTAAAAAT

>Sequence 533

GGTGTAGGGGCACTACCGCGGNGGTTTTTCGAAGNACGATCANNCCCCCA  
GCNGCNGGCENGCAAGANGAGCCGCTGCGAGACGGGTTTANTCGCNNCC  
CTACCCNGGANCNNGGCCNNACATNNNCGATTGNGNCACNGGGCGCCACC  
NCACGGGAGAAGGNCNNGCCGNAAGGGNNNNACGAAGANCNGCANNNN  
GACCNNGNAGCGGANACCAGGATTTTTTCCAATTTTTTTTCCACGTTTCC  
CACAGGGACACAAACAAGCTCACCCAACAAAGCCAACCGCCCTGCCCGC  
GTACCTGCCCGTTCTT

>Sequence 534

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TGAAGCCTGATTACTGGAGTGACAACTATTGAAAGAAGCAGAAGCGTTT  
GCTTATATCGCCGGACACACACTGCCAATGAGCGGCGGGCGGTGGTGA  
AATGAGGGATCTCTTTGAGAAATTAAGATCACTATTTGGATTACTTCAT  
TCTTCCAAGGTTTCAAAAAGTCTCATTCTTACTCGAGCCTTCAGTGAAAT  
TCAGGGACTAACAGATCAGGCAGACAAAATTGATAGGACAGAAAAATCTCC  
TGACTCGAAAACGGAATATTCTGATACGGAAGTATCGTCTCTTCAGGT  
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Table 2

GCAAGCACTAGAGGC

&gt;Sequence 535

NGACTTTGAGGCAACTCNCGCGCNCNNGGCGCTGCGNCGGNGNCACGACGCG  
CCNGGGCAAAGGGAAGNAACAGACACACGTTTGNGNGGAAGGATGTAACC  
CGGGACCAGAGGCNCAGNGGNGGGAGAGANCCCNGCATTACCCACCAACC  
AGAACGNGGCCGCCAGAGGCNNGAACNGAGAGAAAGANNCCNGGGGCGNGN  
CNAANGAAAANANAGACANNNCACANAAGCCTTGTCATTTTCTTTNCC  
GGCGTGACCGNCCACCGCAGAAACANNNCACAANAGGCNGCCGGNNCAAA  
CGGGGGGAGCAGGACTGTCAGNNCNCNGGGAAGGGGNCAGCGCANCCG  
GCAGGGCNCNCNCCCCGNCNNNGGGAAGAACAGGGCTCNCNCAGGG  
GCCCCAGGGACGGCCAGGCNGNCCAGCCAGGAAGGCCAAAANCAAGAGG  
GAGANGNAGAAAGGNGAAAAAAGAAAAAGGGGAGNNGNGAANCNGGN  
GNNCCNCCCCACAANNGGANGANNGGCANAAAGGGNNNAGCANGNCCCN  
CCNNNCNCACCCCCCNNGGNCNCCAATAAACAAGAGAAACNCCAAAG  
GAANGGGGAGGGCCGAACCCACAGGCGGAGAACCCGGCACCCCCAAGCAN  
NCAAGAAAAAGGCGCCCCCAAAACAACAACCCCCCAAGGG

&gt;Sequence 536

GGCTTTGAGGCACTCCGCGGNGGCCCTCGNCGNGCTTCTCAGCCAGANAC  
GNACAGCCNGAGAGTNGCTGGNAGACTCTTTTANCANCCGCCGCCACNA  
TCCATCCATCNGCTCATCCTTTCTCCATCTGCTCAACAAACGCTAGAGAA  
TCAATCCTTGTTGTCAGATACTGGGGCTGCCCTCAAGGAGCTTTTATAGAG  
TTCAGGGNACCTTTTTCGCTCTTTTTT

&gt;Sequence 537

GGCTTTGNGCNACTCCGCGGNGGCCCTCGCAGTANNATCGNGGCCC

&gt;Sequence 538

GCGTTTTGGGGCACACCGCGGNGGCGTTCNGANGTACGATCNGCGCCCGC  
CAGAACAGGCCACAGCCCAGAGCCCTGCGGCNGCCTCATTACNCGGNACA  
AGCTNGAGCGGGGGGACAGGNCGGCGGGTTTTGGAAACACTGGACTGGAT  
GGCAGATGATCCAGAACTCCGCTCCGTTTGGCTTCCCAAGGATCCCACCA  
ACTCATTCTAATCAGCGATCACTGTTTTAATTTCTTTTTTNCCTATTAC  
TATNNCACAGATCAGGCCTACCTCATTGGCATATTAAGAAAGTTGTCTCA  
AGTATATTTAGTGTATCATTTTACTATAGTTCTTCAAATGACTGACAT  
TCATCTTTTCCCTACCTCTAAATTCCTTTCTTTTTCACATTATCTTTCTT  
GATTGCTTTTTAATAGAAAAACANACAAAGACATGGATTTACTGTGCATA  
TTCAGAGATCCACTACTGGAATATGCATGGAGGTTTCATATACCACTTA  
CAGAAAGAATAACTCAGAGTATAAAGTCGAAAAGAAAGAAATCTGAAATAT  
TAGACTTGTTCTGGAATAAGCGTACCTAGGATGATACCACTTCACCTAAT  
CAGATTTCCCTTTCCACTATTTAACAGGGCAATATAAAAACTGGTAGT  
TAAATACACAAGAGGCACTTATATTACTGGCTCCTCAACCCA

&gt;Sequence 539

CCGGGCAGGTACTTTCTTTTTATAGTTTTTTTGTGTTTTGTGATTTTTT  
TTTTTGGTTTTTGTGTTTTTGTGTTTTTTTCTTTTTTTTTTGGTTCTT  
AGAAAATCTGAGACACGTGAGGCCAGACAAAGCAAGGCCGGGGCTGATGG  
CCTGGCTGCCTGGTGGTTGATGGTTTTGCTCCCCCTACCTTTTTTTTTGA  
GTTTATTCTGATTGATTTTTTTTCTTGGTTTCTGGATAAACCACCCTCTG  
GGGACAGGATAATAAAACATGTAATATTTTAAGAAAGGAAAAAAAAAAAA  
AAAAAAAAAAGGGCCCCGGGCC

&gt;Sequence 540

CCGGGCAGGTACTTTATTTGCTAAAAAATGCTAATGATATCCAAACCAT  
CAGCTACTTGTAATCTTTTGTGCTGGTGGAGGGTTTTGTCTCAATTTTGGT  
GGCTGCTGACTGATCAGCGTGGTGGTTGCTGAAGGTTGGAGTGGTTGTGG  
CAATTTCTTAAAAAAGACAACAGGCTGGGTATATTGCCTCATACCTGTA  
AATCCAGCACTTTGGGAGGCTGAGGTGGGAGAATCTTTGAGGCCAGGA  
GTTTAAGACCGGCTGNGCAACATGGTGAGACCGTGTGTCTGCAGAAAAT  
GAAAAGAAATTGGCTGAGTGTGGTGGTGCATGCCTATACTACCATCTACT  
AGGGAGGGTAGGATGGAAGGTTTGCTTGAGCCCAGGAATTCAAGGTTGTG

Table 2

CCACTGCACTCCAGCCTTGGATGGCAAAGTGAGATCCTGCCTCAAATTTA  
AAATAAATTAAATTAACCANANAAAAAAAAAAAAAAAAANNAGGACCTCGG  
CCGTCTAAAACTAGGGATCCGCCGGCTGGAGGATTTAATATCAGCCTATT  
CCCCCGGCCCTGGGGGGGGGGCCCCCCCCCATTTTTTTCCTTTAAGG  
AGGGTAATTCCGCGCTCGCCAAATATGGAAATACTTTTCCTTGAAAAA  
TTGTATCGCCCAAN

>Sequence 541

GGACGGTCAGAACCGATACCACCGCGCGCGGCCTGATGTACTTTTTT  
TTTTTTTTTTTGTAAAAAGACACAAGTAGTGATATATCAACATCTGTTT  
AACTCGTGACCGTTTCTTTTTTCAACTTCTTTTTTCTTTTCAGTGCTTT  
CTTCTTCCATTACCTTTCTGATTTCCACTTTCAGTTTCCATTCTGTCG  
CTATCTTCTGGTAGCCACAGCTCAGCTCCAATCTGCGAAATACGGCACTC  
TCTTTATTGACTACTGCTTCTCTCGGCCCCCGCGCTGGCCNACGGGAGTA  
CCTGCCCCGGCGGCCGCT

>Sequence 542

GAGGGGTGACTCCCCGCGTGGCGGCCCGCGGCGGTACAAAATGTAAAG  
ACGTTGTTTGTATTTGTAAGGCTGGTGTATTAGAGAGCATATCTCTTAT  
TCCTCACTTTCCACCCCGTATTTGTAATGACCATGATCAATGTTTTTA  
CTTTTTGTATAATGGGGTGGGGTGGAGTGGGGGCTATTGACAGTCACCCCT  
GAGGTCTTTAGAGGACCAGCTATTGTATCACCTTGGATACTTGAAGTTTA  
ATGCTCAGTTGGGTGGGTGGCATTTGACTTGGAGGCTGGCATGTTCCACC  
AGAGCCTGGGCCCTGTATCTGGGCAGCCTTTGAGGATTACTTATGATAT  
TGAATGACAGTCTTAAGTGCCAACCTACGCCCAGCTCATGCCCTTTTTTG  
CCTGGACATGTGCTATTTTTATTCACTTATATGTGATTCACTTGTGAGGG  
TTAAACTTTTATACACGAATTGTATTGGGACAAAACGGCTGTTGGGGATT  
ATATATCCCTT

>Sequence 543

GGACACACCATGCACGCAAAACAAATTGCAATAATGTGATAAGTTCTTTA  
AAAGAGGTAAGAGCAACGTGCTTTGGGAGCAGAGAAGAGGGAGAAAGCAG  
CATCTTGCCTGGATGAGCCAGGGGACACAGAAGAGAAGCCCACTATCTCA  
TTTAATCTTTACAACCTCTCTTGCAAGGTTCCCTGGTTGTGAAAATACATG  
AGATGAATCATGAAGGCCACTATCATCTCTCTGCTTGCACAAGTTTC  
CTGGGCTGGACCGTTTCAACAGAGAGGGCTTATTGACTTTATGCTAGAAG  
ATGAGGCTTCTGGGATAGGCCAGAAAGTTCTGATGACCGCGACTTCGAG  
CCCTCCCTATGCCAGTGTGCCCTTCCGCTGTCAATGCCATCTTTAAAT  
GGTCCAATGTTCTGATTTGGGTCTGGACAAAAGTGCCAAT

>Sequence 544

GAGAGGGTCCCGGTGGCGGCCGAGGACACAATACTTACTTACAAATTTA  
ATACTGCTTCAAGGTATTTAATCTAAAATTTTACCAACTTTGATTTGTCT  
GGTTAGGATATTTGTTTTAGTGGATATGCTTTAATTCGGATCAATTACT  
GCAGTAAATCTCATCCCTAAGCATGAAATGTTGTCAACAAATACCCAGTT  
CCATTTAGTTATCAATTAGCCCAAATAAGAGATACAAAGTATAACAGTGA  
CCAACCTTGTACCTGCCCCGGGCGGCCGCTCGACCACTGACATAGACTGAA  
AGCAAGAAGAGTGCTGTGTTTGTGCTATATCCCTCCAACACCTAAGGC  
AATGCATTTACATCTTGTGAGAGCAGATAACTCAATACCTGGAAC TAG  
AAAATTAGAATCTAAAAGACGGAAGGCATCTAAAGAACAGTTCCCATCAT  
GCCACAGCTGAGAAATTGGAGACC

>Sequence 545

ATTGTTATACCGCGTCAACCAATTTCCAACACAACTATACCGAAGCCCG  
GGAGAGACATTAAAAGTTGTA AAAAGCACTTGGGGGGTGTCTTATATGG  
AGGTGGAGGCTTAAACTTCAACATTTAAATTTTGGCGTTTGGCGGCCTTC  
ACATGCGCGCGCCTTTTTCCAGTTTCGGGGGAAAAACACTTGTTTCGGT  
GGCACAGACTTGGCAATTTAAATTGGAAATACGGGGCCCAAAACGGCCTC  
CCGGGGGAAGAAGGGCCGGGTTTTTGGCCGTAATTTGGGGGGCGGCTTC  
TTTTCCGGCTTTCCCTTCGGCGTCAACTTTGAACTTCCGCTTGTGCGC  
TTCGGGTTTCGGTTTACCGGCTTGGCGGGCCGAGGACCGGTAATTCAGG

Table 2

## CTTCG

## &gt;Sequence 546

GCCCGGGCAGGTACCTGATGCAGGGAATTGAAGCCAGACCCAAAACGGGC  
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AATTATTAACAGTGGCCCCCTTCACTCTCCAAAGAGTCCCTGTCCAGACA  
GGTAATTGTGAAAGTCGCCTTCAAAATGACTGGCCGGTAAGGAAAGTGGA  
GTGAGGGAAGCAGGGTAGGTGGAGGTGTGAAAGGGAGAAGGGCCTCATCT  
CAGGGTGGCTGGACCTGCACCAGCATCGGCCTGCATGAATGTGCTCCTAC  
TCTTGCCAGGCTGAGTATCAAGAGAAGCAAGAAATCTAGATAAAAATCC  
AAATCCAGAAACATCAGCGTTTTGAGGTAAACATGTTGGCAATTATTCAG  
CTTTATGAAATAAATATTATCTTTCTTTTCTACCCGCTTGGGAGCCTGG  
CAAAATATGGGGGGGACCCCTGGCTTCTTTG

## &gt;Sequence 547

AAACAAGTTCACATAATCATCAATTACAATAATAATTTTACAATCTCAT  
CTTACTATTTATATAAATATTCCTAATCTGTATAATTTTTATTATATTAT  
ATATTTCTTATTAATTTGAGGCCCCGGGCGCCGAGTCAGGTAAGCCCTG  
GCTGCCCTCCACCCACTCCAGGGAGACCAAAAGCCTTCATACATCTCAAG  
TTGGGGGACAAAAAGGGGAAGGGGGGGCACGAAGGCTCATCATTCAAA  
ATAAAACAAAATAAAAAAGTTATTAAGGGCGAAGAATAAAAAAAATTTT  
GGCATTACATAATTTTACACCGAAAAGCAATGGCTTATCACCTTCCCC  
TTGGTGTGGCACTTTGGAGATGAGGGACCTGGGCCAATTNTNCTCCTT  
AGAAGAGGAAAGTTGGGGGTGGGCTTTCTAGTGAATGNGGCAAGGGGAG  
CTTTCCCTGTTTAAACAAACCGCCATTCTCAATATTTTTGGGAAATGAAC  
CCTATTAAANNAAAAACACAAAAATGTGGCAAATCCTAAAGGTCCCTTC  
CGGCGCACCATTTGTTGAAAACCTTTTGTGGGGGNAATTGTCTTCGCTCT  
CAAACCCGAACCTTGCTGTCAACTCATTCACCGTTTCCCAAGTTTTT  
TAAAAATTCCTGGAGGTCCAAAGCCCCAAAAAAGGGGGGGGGGGGGGGG  
AACCAAAAAACAAAAAAGAACCAATTAAGG

## &gt;Sequence 548

GGCGCCGCAGGTACCTTTGTAATATCCTTTATATAAACCAAGTAAATGCT  
GTTTCCCTGAGTTCTGTGACCTGCTCTGGCAAATTAATCAAACCCAAGAA  
GGGGGTTGTGGGAACCCCAATTTATAGCTATTCAGTCAGAAAAAACAGG  
TTAGACAATCTGGGGCTTGCGACTGGCATTGGAAGTGGGGGACAGTTGTG  
CGGGGCTCAGCCTTCAACCTGTGGGATCTGACGCTATCTCTGGGTAGATG  
AAGTAGAATTGAAGTGGGGGACACCCAGCTGGTGTCCACTGCAGAATGAA  
TTGCTTGTGATGTCTAGGGAGGCGCAGAATTATAGCAGGAGGTGAAA  
AGCACTTCTTATTAGCAGTGGCAAGAGAAAAATGAGAAGGAGCAAAAGCTG  
AAACTCCTGATAAACCAATCAGATCTCATGAGGCTCATTAACATAACAA  
GAATAGCATGGGAAAGACTGGC

## &gt;Sequence 549

ACTTGATAGCGCGTGCGTGCCAGTGAACCTCTCAGCCCCGTATGCCGA  
CCTGAACCTCACATGCGTCTAACGTCTATTGCATTCTATGCTGGTGAAAG  
AATCTCAATCATGAATGGGGTACCTAACAGACACCTATCCTCGCTGGCGA  
AAAGAAAAGAATGGGCTGCTCTCAGACCGTAGACCCTAAAAGGACCTGCG  
GTCTGTGCCCGGTCCTTGCCACACGGCCGACCAACAACACTACTGGAA  
CCCCCTGGCTGTATGAATACGATATCCATCTTATCAATCCCAATAACCCA  
CATGGGGGGCCTGGCCCCATGACTTGTTGCCTTTAGACAGGGTTACTGG  
CTCGCTTGGCAAAGGCATGGGCATAACTGGGTGCTGTGCTGAAAACACAT  
CCGCGTCCAATTTCCACACCGTACTAACCGAGACCATATAGGGTGAACA  
CCGGCGTGCCTAACGCATGACCTGAACCACACTAATTGCATCATACTTAC  
TGCCCCCTCTGCAGTGTGAAAACCTGTCTGCGCAGACCGATGCATGCAGC  
G

## &gt;Sequence 550

ACGTGGTTACCGCCGTGCGTGCGCGAGGACTACACGATGATCGGTGATTG  
TGCTCATGGGTACCCAGCTGCACCCATGAACTACGCCGAGAGACTGTTT  
AGGCTGTGAGGGACTCAACCGTTATACTGAATGGAGAGCGGGACCAATA

Table 2

CTGGCTGGAAAAGTATACTGCGGACAGTCCGGCCCTGCCCAACCACTCTGT  
GGAGAACCTACGCACTGCACGCCATGCCTGTTTCCTACTCAAGCCTCAAG  
ACTTCTACCTTGATCTGCTTGCCCTTCCTTGACCATCTACCTAGAACTAAC  
CGAGTCCCAGCTCCCAACCTGGCATGAGCTTGGACAGGGTGGACCGCCAC  
CCTGCCTGAACCATGGAGACAGCCTCTGGGATTGGAGGCCAGAGGCCAGG  
GTCAGACCCCAACACGGACTCCTAATTTGATGTACAGACGCAATTAATAA  
GCTTATTTAATCCCGCTGGGAACCTTAAATTATTGCGGGGCGCTCACTGC  
CCATTTTTCAAAAAAAAAAACCTGCCCC

&gt;Sequence 551

GTGATGACGACCGCGCGGCGGCCGAGGTACATTAGCAAAAACAGTGGACT  
TTGTGACCTTGAAAAAGTCATTTAACATCTCTGAACCCTACTTTCTAAGT  
CTCTACAAGTAATATATAGTGGGTGAGGTGTTCTTTCTTTGTTCTGTTAC  
TCGGATGTGAAACTCTCCTTTTGTAGATGAAACCATTGCGTAAGTAATAT  
AAAGACTTTTCCCTGTAGTTATCTTACAGACTGGAGAGAGTGCTAGTGAA  
TGCTTTTGTCTTCAATGCCCATCTCTTGGAATATTGAAGGTGGAGTAGC  
AACCGGGCATTATATTATCTCTTGGAAGGACCTCAGCAATGGAGAATA  
TCCCCATCATCACAACGTGTCATCACTCTGCCGCACGTGATTGTGGAGAAT  
ATCCCTCTCCATGTGAATGCAGAATGAGATTCAATTTACAAAACGAAGCCA  
TTAGGGGGGAGCCTTTTTTTTTAAACCAAGAGAAGTGGGGGCATCTTTCT  
CTGGAAGATCTGGCCTCATTTGGGCCGTGTAAAAAATCC

&gt;Sequence 552

TTCTGTGCATTAATTTTATTTTGTATTGTGTTTAAATCGAAGATATTT  
TTTTTAAATTACGTTTCGTTAGTTATGTAATATATGGTAGTTGCGTGGTTT  
ATTATTTTTTTTAGAGATGAGACGAGTGGCCGCGCCCGGGCAGGTACT  
ACAATGATTCTGAAGCACAGTGTATTCAGACAGATACAGTGAACCAAGTG  
CAATATGTAAGGATGAAAGAAGAGATGACAAAGAAATCCAAGTAAAT  
GCCTTGCTTTGCAAAATGTTTTTATATTAAATCATAAGGGAAGGGAATA  
CTGCCTTAAATGTTATCAAAAGAGTTTTCTAACAAGGTTAATACCTTAGT  
TCTTAACATTTTTTTCTTTATGTGTAGTGTTCATGCTACCTTGGTAG  
GAAACTTATTTACAAACCATATTAAGGCTAATTTAAATATAAATAATA  
TAAAGTGCTCTGAATAAAGCAGAAATATATTACAGTTCATTCCACAGAAA  
GGCATTCCAAACCACCCAAATGACCAAGGCATATATAGTATTTGGAGGAA  
TCAGGGGTTTGGAAGGAGTACGGAGGAAGAAATGAAGGAAAATGCAACCGA  
CATGATTATAGGGGGTTTCATTTTAATAAAAGTTGAAGGCACAGG

&gt;Sequence 553

GAGATGACCCGGGTGGCGGCCGAGGTACCCATCTCTGCCCATCACCGCTG  
GAATTTTGATGACCTATTGGAAGATCTGGGACTATCTGAAACTAGTGA  
GAATTTACACCAAAACCCAAAGGCCAGTTACCAGATTACACATCCCCAGTG  
GTGCTTCCTTACTTCGAGCGGCCGCCCCGGCAGGGACTTCACACCAAACA  
CTAGCTCAAGCACTGACGTTATTCTACAGGACTATGAACCTTCATATCCA  
CATTTACAGTCCGGACAGATAAAGGAAAAACAACCCAAATCCAGGAGGCAA  
TATAAAGGAAGAGAACAAAACACACATTCATACACTCACACTTAAAAAT  
AGGGGAAGACCAACAGGGGAACTTTCGTTCTCTTCTGGATGTCTACTTAA  
AAATCCCATGTGGTACCT

&gt;Sequence 554

GAGATGCCCGGGTGGCGGCCGAGGTACTCTTGAGATTGCTTTAAATTTTG  
TATTGAAACAACAATACATTTTGCACTGTAGTAATGGGAGCACTAACTCT  
TACAACAGTTAGTGAATCGTTTTAAAGAATCAGTTCAGTGTAGACATTTT  
GAAAAGATTGTTTCTGTGCTCTACAATAGCTTAGTGCAATGTGCACTTC  
TGTTTTACTTGCCATTTTCTGTCTGTGTTTCTGTGACATGAAGCAAC  
AGAAACTGAGATCAAAGTTAAGATTATATCCTGTTTGTAGTATCAGATAT  
TTTTCTGTGTACATTTACATTCAAGTTGATAACACTGGTGGTTTCATTTC  
AATACAAATTATGCTAGAGAACTGACATTTTCAGACATGGTCATATATAT  
GCTATTTGAATTCCTTTATCTTGATACAGATCTTGATTGTGAATCTCTGA  
TGATAGATGTGCAGCTAATTTGTCCCGAAACTCATGAAGAT

&gt;Sequence 555

Table 2

TGAGAGATCCGGGTGGCGGCCGCCGGGCGAGGTACAAGACCATGACACGC  
CCAAAACACTTCTGCAGATGTTGTCGTTGGAAAACTGTCGTCTTACAGA  
AGCCAGTTGCAAGGACCTTGCTGCTGCTTGGTTGTCAGCAAGAAGCTGA  
CACACCTGTGCTTGGCCAAAAACCCCATTTGGGGATACAGGGGTGAAGTTT  
CTGTGTGAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGTGT  
ACAGCAATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGC  
TCCAAGAAGCCTGCAGCCTCACAACCTGGACTTGAGTATCAACCAGATA  
GCTCGTGGATTGTGGATTCTCTGTCAGGCATTAGAGAATCCAACTGTAA  
CCTAAACACCTACGGTTGAAGACCTATGAACTAATTTGGAAATCAAAA  
ACTTTTGANGAAGTGAAAGAAAAGAATCCCAAGCTGACT

>Sequence 556

GAGACTGCCCGGTGGCGGCCGAGGTACGCGGGGGGGGAGTGGCACTCGC  
AGCTGCAGCAAATCTCAAAATAAAGAGGCAACGGCCTTTCTCTTCTCTC  
CATCTCTCTATAGCACACCTTTTATTCTTTTCTTCTTTTAAAGCCTC  
ACGAAAGATTTTACTTGTAGATCAACTTTCAAAATGTAGGAAGTCAGAAT  
GGGTGACATCATCAGAAAAATATGTGGAGCTGATCACAAGAAGTGAAGAA  
CCCAGAGCAGGAAAGCGGTTGTGACTCCTGGGCCCAGGGAGTTGACAGCG  
TCTGGGCTTCAGAGGAGCCAGCGCCTCCGAGTTGTCTTGAAGTGAGGCTC  
TGCTGTAGTCTGTTCTTCTGGCTCTAAGATCTGAATGTTGTGACCACTA  
ATTTGCTCTTCTTGGAGGGTAACCCAGTTTGGTCCACAAGGCTTGCTG  
CCCAATCTTTTGCAACAGTTGAACCAAGAATCTGAAGCTGATAT

>Sequence 557

TGAGATGCTCCGGGTGGCGGCCGAGGTACTGGATGTCAGGTCTGCGAAAC  
TTCTTAGATTTTGACCTCAGTCCATAAACCACTATCACCTCGGCCATC  
ATATGTGTCTACTGTGGGACAACCTGGAGTGAAAACCTCGGTTGCTGGCA  
GGTCCGTGGGAAAATCAGTGACCAGTTCATCAGATTCATCAGAATGGTGA  
GACTCATCAGACTGGTGAGAATCATCAGTGTCATCTACA

>Sequence 558

GGGATGTGTCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTGTTTTGAGACGGAGTCTCCCTCTGTTGCCAGTCTGGAGTG  
CAGTGGCATGATCTTGGCTCACTGCAACCTCCATCTCCTGGGCTCAAGCG  
ATTCTCTGACTCAGCCTCCCAAGTAGCTGGGATTACAGGTGCCTGCCAC  
CATGTCCGGCTAATTTTTGTATTTTAGTAAAGACGGGGTTTACCATAT  
TGGTCAGGCTGCTCTCGAAATCCTGACCTCGTAATCCGCCCCGCTCGGCC  
TCCCAAAGTGCTGGGATTACAGGCCCCGAGCCACCGCACCTGGCCTGTATT  
CCCGCGTACCTGCCCCG

>Sequence 559

TAGATGACTCCGGGTGGCGGCCGCCGGGCGAGGTACGCGGGGGGTGCCTG  
GCTCCGTTTCTGCTTTTGGTTCTTACAGTAGTCGGCGTAGGCCTTAGGT  
GGGTTTCGTGCGCCTTCTACCTCGCTGTTTCGGTTTTCTGGCTCCTCGGC  
CCTTTTCTCCCCTGTTGCAGCTGGGAGCGGACGAAGCGGAAGCTGGGAT  
TTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAAA  
TCATACAATTTATATCAACAATATGAATGACAAAATTAAGGAAGAAT  
TGAAGAGATCCCTATATGCCCTGTTTCTCAATTTGGTCATGTGGTGGAC  
ATTGTGGCTTTAAAGACCCCTGAAGAAGAGGGGGGCGAGGGCCTTTTGGCC  
ATAATTTAAGGGAACGGGGCTATTCCACCAAAAGGCCTTGGAGGACAGGC  
TACAAGGATTTCCCATTTTATAGGGGAAACCCCAAGGGGGGAAA

>Sequence 560

GCGATGTGAETCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT  
TTTTTTTTTGTATCGGCAAGCGACGCTTAGACAGGCGTAGCCCCGGGAGGA  
ACCCGGGGCGCAAGTGCGTTTCAAGTGTCGATGATCAATGTGTCCTGCA  
ATTCACATTAATTCTCGCAGCTAGCTTGGCTTCTATCGACGCACGAGCC  
GAGTGATCCACCGCTAAGAGTCGCCCCGGGTCCCTGGCCCCGGG

>Sequence 561

TAGCTACTTTACGCTGTCTGTACATTNTGTCGTATACATGAGTACTGTCA  
TAATACTTTTGACACTTGCTGTCTCTAGTTTCTAATTTTATATTATAAC



Table 2

ATGACATTGATCTATAATTTTGTCTTTTATTTTANANANATATTTGCGAT  
GGCTCCCCGGGTGGCGGGCGAGGTACCATGTGGGAAGCGCTGTGAAGAGT  
TGTTGCCTTTCAAGATATACCCAAATCCAGTTCCAGCCCGTGTCATTA  
AAACTCCGCTGGCGTGAAAGATGACGTCCTTAGCCCAGCAGCTGCAACGA  
CTCGCCCTCCCTCAAAGGGATGCCAGCCTTTTATTTAGAGATGAAGTTGC  
TTCTTTGTTATTTGACCCTAAGGAAGCGGCCACAATTGACAGGGACACCG  
TCTTCGCCATTTGGTGAGCCATCTTTTAACTTAGAAAAGCTCTTGGAAGCG  
TTTGTTTTCTGGATGTTACTGTTTTTTTTTCCCCCTGTTTTCTCTCTG  
TACCCGTGCTCTTCTTAACAGTTTCTGCATGTTGATGTATATTTTCAAG  
GGAAAGAGATCATTAACACCATGTGCTTGGTGCTTGAAATGTTTATTAAT  
TTTGAGCGGCCCGCCGTCTGGAACCTGGGGGCCCACTGGC

>Sequence 562

AGAAACATTGTGAAGCAAATAGGGCCAGTCAAAATGGCCCATTGATACCG  
TTAAAAAAGGGCCGGCGTTTGTGGGCGTTTTTTTCCAATAGGGCTCCC  
TGCTCCCCCTGAACGTAGTCAATCAACTAAAAAATTCGGACCGCTCAA  
AGGTTCAAGAGGTGTGCCGAAAAACCCCGTACCAGGGAACATTTTAA  
TGGATACCCAGGGCCGTTTCCCCCTTGGTAAGCTTCCCTTCGTTGCG  
GCTTCTTCCCTTGTTCGAAACCCCTTGCCCGGCTTACCCGGAATAACC  
CTGTTCCCGGCTTTTTTCTCCATTTTGGGGAAAGCCTTGGGCGGCTT  
TCTTCATTAGCCTCACG

>Sequence 563

GCNNAGCCCGGGGNGGATCCNATCTAGNTTNCNAGNAGNCNNGGCCGNN  
CCCGGGGCCAGNGTAACCNCGGGGNGGGGCCCGGGAAGGTTGGGAAAA  
AGAAAAAAGGGTTTTCTTAAAGTTGGGGCTTTGGGAGGGGGTAATTTCC  
CCCCCAAAGGAGAGACCGGGGGGCCCCGGGCCAAAACGCGGGGGGGGG  
GGGGGAAACCTCCCAAATTTTGCGCCCTTAATAGAGGGGGGGCGGTAT  
TTAACCCGGCCGCTTAATGGGGCCCCGGGTTTTTAAAAACGGTGGAAC  
TGGGAAAAAAACCTGGGGGGGTTCGCCAAATTAAGGCGCTTTGGGAAG  
AAATACCCCTCTTTTTGCCGGGTGGGGGGAATAAAAAAAGGGGCC  
CCCACAAAAGGCGCTTTTTACAAAAAATTTGGCCCCCTCTTAATTGGGA  
GAAGGGGGGGCCCCCTTTTTTGGGCGGAATATAAAAAGGGCGGGGGG  
GGGGGGTGGGGTTTTTCCCCAACCGGGAGGGCGCGTTATTTTTTTGTG  
GGGGGGCCTTATTACGGAGCCTTTTTNTNNNGTGTTTTTTCCCTCT  
TTTTTTTGTGGGAGGGAGC

>Sequence 564

AGGTACCAAGTAGGATAATTACTACTGCCAACACACACATGCACGCATGC  
ACACACACACACAGATGTATGCACGCACACACACTCTCACTCCTAGACTG  
CTAAAAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAGTCCCTGGCCCGGGCG

>Sequence 565

NGGATTGGAGAATCCGCGGNGCGGTTGGNNGCAATTACTAGACCTCNGA  
CCNCGGCACTAAGCANCNCAACCCTGAANAGANTGTTATCCNCCCTCC  
CCCNAGAAACCNCNGCGCCANGAGTTTCAAGNGGAGGAAGAAGCGACT  
GCGCAAGCNGAAGCGCAAAAGAAAGANGAGGCAGAGGNCCAAGNAAA  
CCGNAGCNGNNGCACCGNGGAGGCCTTTGTTTTTTAGGTTTTGAANGC  
CAGACGCTCCTTATGAAAGTACCAAGAAGTGGGAAGCGGGGTGAGCTGCT  
GAAGATTTTTGGTATCGACAGGGATGCCATTGCACAAGCTGTGAGGGGCC  
TCATCACCAAGGCCTAGGGCGGGTATGAAGTGTGGGGCGGGGTCTATAC  
ATTCTGAGATTCTGGGAAAGGGGCTCAAAGATGT

>Sequence 566 -

TCGAGTACGCGGGGGGGGACTGGAGGACCTGTCTGGTTATTATACAGACG  
CATAACTGGAGGTGGGATCCACACAGCTCAGAACAGCTGGATCTTGCTCA  
GTCTCTGCCAGGGGAAGATTCTTGGAGGAGGCCCTGCAGCGACATGGAG  
GGAGCTGCTTTGCTGAGAGTCTCTGCTCTGCATCTGGATGAGTGCAT  
TTTCTTTGTGTGGGAGTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAAC  
AAAACGTTCCAAGTGGGACAGATACTGGAGATCCTCAAAGTAAGCCCCTC  
GGTGAAGTGGGCTGCTGGCACCATGGACCCAGAGAGCAGTATCTTTATTGA

Table 2

GGATGCCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTGCTAC  
TCCTGCTGACTG

>Sequence 567

TGGATTGGGCCCTNCGCGGNGGCGGTTGANGGCNTTTCGNNGCCCCNCAC  
CANNNNAAGGNCGAGGGNNCCCTGGANGANTGGTTANTCGGCCCCCCCC  
CGGGCNCNGCAGGCCGNCANNANCGTTGANGCNCGCGGGGCGCNGCCCC  
TGAAAACCCCGNACCNGCCCGGGCGGCTGCNCNAGAACNAGNGGANCCCC  
CGGGCGGCAGGAANNCGAGAGCAAGTTTTTCTTTTTTGGTTTTCCCGAGG  
GGGGGCCCTTTTCAAAAAAAATGTCCCCCAGGGAGGGGGGAGGGCGCG  
CTTTTTTTTTACAACGGCACAGCCGNNCCCCGGGGGAAANNNGGAACCGC  
GCACAAANCCACACAACAGACGAGCCGGGAGCACAAAGGGGAAAGCCCGG  
GGGGGCCAACGAGGGAGCCAACCCCCACCAAGGG

>Sequence 568

GCGATTGGAGCTACACCGCGGNGGCGGTTTCGGGCGAGACNNCTCTTGNC  
CATCTTCTCCCGCTGCTGAAATTNCTTGGCGGGCGCTTAACCCGAGGA  
CCCTCCCCCGCGTACGCTGGATAGCCTTTTTCCAGAAAGAGAGAGTA  
GCGCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGAATGCTG  
TCAGCTTCAGGAATCCCCGCGTACCTGCCCTTTTCTTTTTT

>Sequence 569

GCGCTTTGGAGCNACTCCCGCGGNNGGCGGCTCGAGNGACAATTACAACC  
CCGNNNAANCCAAGGGNNNAGGGNANCAAGCTGCTGNGATNNACTAATAC  
ACAAACCCAGACAGCAGNAAGGNCAGAAGAACCTTGAGAACAGCAGAA  
GCAACACCGCAGAACNCNGAAGGCNGAGAACACAAGNCAANACANNNA  
CNNAAAAACAACGCNGAGAGAACACNGGGAAAAATTTCTTTTTTAGATG  
TCCACAAAAAAGGACATGTAAAGGGGAAGGTCAAGTTGTTGAGACAGCTA  
CTTTATTCTTGGGATGACTGNGGAGGTGGTGGAGATGAGCCTTGTGGC  
AGATTTCCGTTCTGATGTCACGAGTCGTTGACCCACAAGGTACCTGCCCC  
>Sequence 570

GCGATCGGAGCAACCCGCGGNGGCGGTTGANGNCGCGACAGCCGANGAAA  
GAAAAAGGGAGCCAGGCCCATTTCCAGCCGATTAANCCGNGGGGGGAA  
CGGGGNNNAACCCGGGAAAAATTTAAACCAAGAGGGGAAAAACCCAGAA  
AGGCCCANGGGGCCGGGAAACCCAAACCCAGGGGGGAAAAACCCGGCCC  
CCCCGAAAAAACCCCCCCCCCTTTTAAATTTTTTGGGGGGGGGGCCCC  
CCAAAAAACCCCCCCCCCGGGGAAAAAACCTCCCAAAAAAAACCC  
CCCCCCCCCCCCCTTTTTTGGGGGGGGGAAAAAAACCCCAAGGGG  
GGGCCCCCGC

>Sequence 571

NGGCTAGGAGCACACCGCGGGCGCTGGGGCCAAACAACGTGTCTGTAAGAG  
GGACCTCTCATGTTACAGGCTTTGACAACCCAGAATCAAACCTGGAGAAC  
ATTCCGAAGCCGTTCTTATAAGTGTCTCCATCTCTACCTGGGCTGAAATG  
GAATGTGCAAATGTAGCCAGCCTGGTCCTTGGGTGTTGCCAGTTGATTG  
ATGACTGGGAGCCAAAGTGGCATTTTCTTTGACCTAAACGGGCGATGATG  
AAATAAATCGAGCGGCCCGCCGGGCAGGTACATCTGTGAATGTGAATGCC  
AAAGCGAAGGCATCCCTGAAAGTCCCAAGTGTGATGAAGGAAATGGGACA  
TTTGAGTGTGGCGCGTGCAGGTGCAATGAAGGGCGTGTGGTAGACATTG  
TGAATGCAGCACAGATGAAGTTAACAG

>Sequence 572

GGCGTTTTGNGNCNACACCAGCGGNNNGCGTTCGNTGAGNGATCNGNCG  
GCCGNGNNNCNACCCGCGNCCNNCCNTTACTGNGGGCTTTGAGGCNCC  
CGCCA'CGGAAAAAGNNGGCCCCGAGCCAGAGCTTTTGCAGCCCNNGNAG  
GGCGNGGCCCGAGGCAANGGAAAGNNGGGANGNAAAACGAAGNACAGGAGC  
AGANNNGAAGAAANNACAAAGNNGAANNNGGNGCTTTTCAGTTTTTTAGAGAG  
TGACCACANAGCCTCTACTTCTCTGATAAAAAATGTTGGGAAAAACACCTG  
AATTAAAGGAAGACTCATGCAACTTGTCTTCTGGCAATGAAAGCAGCAAA  
TTAGAAAATGAGTCCAAACTATTGTCAATTAACACTGATAAACTTTATG  
TCA

Table 2

## &gt;Sequence 573

CCCCAGAAAAAAGGCCCTGGGGCCACCCAGANAGAACTCAGGG  
GACAACCACGCGGCGGCGCCCGGGCAGGAACANAGCCCTCAGGGG  
GNCGGAAACCCCGCANAGGACAGGACANAAAGGAAAACAAAAAGCGCAA  
GCCGACACACACAGGACAGCGAAGGGCAACGAGACCCAACGCCGGAC  
ACAAGCCAAAACACCAAAAACGAGAACAGAGACCACGGGACGGAAGCCAA  
AACGACAAAGGGGAGACTGCAGCCACAACAAGACGGGCGGGCTCGGCGC  
CCGCAAAGGAGCGCCGCGCGCGCGGCCGAAGAACACGCCCGCGCCCC  
GCCGCGGCGACACACAGCAAAAACAACACCGGCACGCAACCAAGGGG  
AGAAACAGCCGCCCCCGGAGACGGGGGCGCCCGCACACCAAAACACC  
AAGACAG

## &gt;Sequence 574

## &gt;Sequence 575

## &gt;Sequence 576

NGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTAGGAGCC  
TCTCTCCCTACTGCTGCTACACAAGACCCTGAGACTGACCTGCAGGACGA  
AACCATGAAGAGCCTGATCCTTCTTGCCATCC

## &gt;Sequence 577

CCGGGCAGGTACAGAGACCTCCTTACTTACCCCTTCTCCTTCGGCTGG  
AGCTCGGCGAGCGAGAGGCGGCGCTGGCGTTGGAGAGCGACGGCGGCCCC  
CGCGTAAGCAGTGGTAACAACGCAGAGTAACGCGGGAATGAAGAATCTTA  
GGCGGTGCACCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAG  
GATGATGTCTTCTTAGTGTTCCTTGCATTTTGGGACAGAATGGAATCTC  
AGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGA  
AGAGTGCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGT  
CTTCTGATGTCATATCATTTCACTGTCTAGGCTACAACC

## &gt;Sequence 578

GCGATTGGAGCTCCACGCGGTGGCCCCCGGGCAGGTACCTCACAACGA  
GTTCACTCAGTAGCAGAAGGATCTTCTCTCTTGTTCCTGATGATTCAAG  
GTCCTCACAGTCTTGATAATCTGTTCTTCCCGAAACTCCCAAATATCTA  
TGGAGAGCTGTTCTAGCTTTTGCACAGGGAACCAAGTGGACAGAGGTATCA  
TTAAACATGTCCATGTATTGCGAAGTCTGAGGAACTCAAGCTCCTCCAG  
TCCTTTTAAATCTTTGCAATGTAGGGATAATTTTCTGCAGAATCCTTG  
CCAACAACCTCTCCTCAAGTCCTTTGAAACTGTTCCCAATGATGACCATC  
TTAGAAAGGGCATCTACTGACCAGTTACTCCATAAAAGATTGTTGTACCT  
CGGCCGCTCTAGAN

## &gt;Sequence 579

NGGAATTGGAGCTTACTGCGGTGGCGGCCGAGGTACTTTGGACAGTGAGG  
GTTTCGATTCATTTTAGGGGTAGGGTTGGGGGTGGGAGTGGGAGTGTGGGT  
TGGCAGGAGGAAGAATGAGTCTACTTTGGAGACAATTAAGTCATGGTACT  
TTTTTTTTTTTTTTTTTTTTTTTTTTGGCTACATAGACATCTTTCTCATG  
TATTGTTACTAGAACAACCTTGATAGGGTTTTATGGTTTGGGGAAAACAT  
TTTTAAAAAATGGACTTATCTCTATTATACAGAGTTATAATATAAAAATG  
ATTTAAAGGCTATATTTTTCAGCATGTAGGTAGCTACACTGTAATCCTGT  
TGAAGAACTTTCCTATTTAAGCTTATAGGATGAAAATATATAATTAAAG  
TCTTCTGATCATAGCTT

## &gt;Sequence 580

AGGTACCATCCAAATGCTTCCCTGGTCTTGATGATCTCTTCCAGAGTCGA  
TCTGAGTGGCCTTTTCTGCACCTCCCTTCTTTCTTTGAATGGAATT  
AAACCCAATTGGAAACAACATTGACCCAGTCAAAAGCTTCTAATGGTTT  
CTTTTTCTTCCCTCCAGTTTTAGTTTGCTTTTATTAAAAAAAGAAAATAGT  
GCATGGCCATAGCTCCTTCAGTTCTCTTATTGCAGACTAACCATCAGGAT  
GGTATCAAAGCACAAATACTTTGGAGGGGAATGCGTTGAACTGGGGCAAG  
TACCTGCCCC

## &gt;Sequence 581

CACTCGGCACTCTCGGTTCTCTGCTATTTTAATTGTATTTGTATAATAA

Table 2

CAATACGTATTTTACTACATTCTTTAATGTACATAGATATCATATACTT  
ATTTATTCATTAANTTATATTATGGTTTAGTAGTGAGCTC

>Sequence 582

GTTTTAGAGATGAGCTCACCGCGGTGGCGGCCGAGGTACCAAATTGTAA  
AATACTCGAAGGCCTTCAGGAACCTGTGACTGATTTACATAAATACCAGA  
ACCTATTTTGGATGAGGTAAAAGACATGTGCTCATCTCCAATTACAGTTT  
CAAGCTGCTGTCGGCCAACCTATCAGCGGGGAGGCCACAAAGCATAAGA  
ATTCTTTTGGGATTACACTGACATCAATAATTTTATCACTATCTTCCAT  
TACACTATTGTGCACATTAAGCCAATTTTCTGATCATCACATACTTGTTG  
TAACTGCTGCTGGGGGCATATCTAAGCTTTACGT

>Sequence 583

GCGCTAGGAGTACTCGCGNGGCGGTTAGGGCTCTACCGGACCNCNGACC  
CTCCNGGAACCGAAAAGGCTGGNGCGGGTTTCANCCAGGNCNCACTGANN  
GNCGGACCACANGAGNCAAACCTTAGGNCNAGCNCAGAGAAAGCCCCGAGAC  
AGCAGGGCAAAAGCGGCNNGCGCCCCGNGNGGAACANCGCCAGCCNCCTC  
ANAANCCANNNCCAGACAAGCTTTTCAATTTTTTTTCAAATCCGACATCTA  
CTCCAACATACATGATACACTAAAGTGCTTGCTGTGTGGGCTTCCAGGGGA  
GATGAAAATGGTAAGTCGGGCTGCAGCATCTCTGTTCAAATATACACCAA  
TTTCTGTTTCTCAATGGCACTAATCATAACGGCTCGCCCTTTGGGATCCA  
CAGCTAAGAAGCTGGCCAGGAACGA

>Sequence 584

GCGATTGGAGCTACCCGCGGTGGCGGCTGAGGGACATTACGTATTGGTTA  
TACAACATTTGTTTAATAAATGCAACTAACAAAGCTACACAAGACTTAGA  
TATTGAAGCAGAAAAGGTGGTTTACAGTCCCTGCATTAACCTCTAATTC  
TTACTACCCTGGCCAAGAAAGCATTTTCACCTCTGCGCTTTCCTTCCTG  
TGTGCTTGTGGTTGGTTCTTCTCTCAGGCTTTCTATTCTGATGCTGA  
GATAGTTCTGTTCACTTAGCAACTTGGGACAGTGACACAGGGTTTGTCT  
GTACAAGCAGGTTATCCAAGAGGCATCCATACCCTGGGTTTCTCTCAAC  
CATAAGGAAAATTGATGCAGCTGTTTCTGACAAGGAAAAGAAGAAACAT  
ACTTCTTTGCAGCGGACAAATACTGGC

>Sequence 585

TAGTACCTGGGCCACCAAACACAGCTGGACTCAATATATGGGGAAGGTAA  
GTGTCCTCAGTTTTTGGAGAGAGATTACCCTCTTCAAAAAGAGTGCTTGA  
TTCTGGTAGTCCAAGCTGTCTCCGTCTGGTGGCACCCCAATTTCCCTGC  
CTAGACCCACCTCC

>Sequence 586

GCGTTTGNNGCACTCCGCGGNGGNCCTTGNNNGNCTGTACTNGCACCN  
AGGAGACGCNNGNAGNCCNNGNATTTTNNNGNNGATTAGGCTTGAAGACG  
CGGNNNANGCNNNNCAGAGNCACANCAATTTTGGNCGAAANAGGAGCCCA  
CACAGAGGAAGGNGAGGAGGCCNCGAGNACCNCGCCGCNCAAGAACN  
AGNGGANCCCCGGGCGGCAGGAATTTTAACTTTCTTAGGGGTTCGNG  
GACCNCCCAGGGGGGAGACGNACCCAGCCCCGCNCCCAGGGAGGGN  
NAACNGCGCGCNNGGCGNAANCANGGGCANAGCCGNNCCCAGGGGAAAA  
NGNNANCCGCNCAANNCCACACAACAACGAGCCGGGAGCA

>Sequence 587

GCGATTGGAGCTCCCCGCGGTGGCGGTTCCGGGTACAGCTTTAAAGCATC  
ATAATGACTAATTATAGGTGAATAATTTTACAGACAGTCTATATTCTAGG  
AGGCAGCTGTAGGCGTTTTAATTGGAAATAAGCATTTCTGAGATAATGATA  
ATAGCAGTGTAGAAAAATGAAGCTAAAAAAATCAAAGTGTGAGAAATCC  
TCTGTCTTCTGGGATTTTTATTTTAAATCATCTCTCCACAGAGAACAA  
GCAGNACTTTNTTTTTTTTTTTTTTTTTTTTGGGGTTTATTTTATGCACAA  
AGAGCCATCGTGGTTTTTATTAGGTAGATGCCCTGGATAATCCTTTCAA  
GGAAGATCACTTAGTCCAACCTAATGAAACCAATATCCTTCGCATACT

>Sequence 588

GCGTTTGGAGCACCCGCGGNGGCGTTCCGGCCGGGCTACTCAGCCANGAGG  
GAAACCGAAGAGCCAGANNGTTAAGNGCAGATTAAGACNAGANCGCCGAG

Table 2

GNNCGGGACAAGAACCGNGAAGGGTTGATGGACAGGGAAGAGACCAACGA  
CTGGATCCTTCCCTCAGACTATGATCATGCAGAGGCAGAAGCCAGGCACC  
TGGTCTATGAATCAGACCAAATCAAGGTTTTTTTGGCTGTCCAAGGAGGAG  
ATCGCTGACAAGTATGACTTATTTGTTGGCAGCCAGGCCGAGATTTTGG  
GGAGGCCTTAGTACCT

>Sequence 589

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GANNNCACNTNCCACTNTNNGAGGACTTTGTCCAGGGTCTCTGGTCTAC  
CGATGTCAAAGCAAATCAGCACAGCATCCGAATCAGGGTAAGAGAGGGGG  
CGGACATTGTATAGTAAGGAGAATCCGAATTTTCCACAGGCTCAACTC  
TATTCTTTGTGTGTCGATTTCAAACCTGGCCGTGTAATTCTCAAACACTG  
TAGGAACGTAATTCTCGGGGAAGCAGTCCTTGGCGAAGACATGGAGCAGC  
GCAGTTTTTCCACACTGACTGTCTCCCAACCACTATCTTGCAT

>Sequence 590

GCGTTAGNNGNCNACACCGCGGNGGNNCTCGNNGTACNATCTGNGGGACAG  
CANGCNACNGNCNAGAGCNGNNTTAANNNGNCNAGTTTAGACTNGCCCCC  
CGAACGCCGANACCCNCGAGACCCACCTTTTTCANAAACAAAAGGCCCA  
AGCCGGAACACNGCCCNNGGACCNGNGACANNNGGACNANNNGNNGNN  
AANNNGGGCCGAGNGAACAACCATTTANATTTTTTCGTGTTTGNNNAGC  
CCGCGAANNACTAAAAAACCCTAAAAAGGGGGGGGAAAGNA  
CCCGCCTTTTT

>Sequence 591

GCGATTGGAGCTCCACGCGGTGGCGGTGCGCCGGCAGGTAAGTCAAGTTTT  
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GCCAAGTCTGTCTTTTGTAAACAAAAAACCAGCAGCTTTATCAAGCAGA  
ATTCCACCTGTATTTCTTAACCTTGCCAGAGCTGAGTCTCATGGCCACCT  
TAGCAGGAGTTGGGGAGGTATTTTAAACAAGGCACATTATCATCTCCCC  
ACCCAAAGTGGAGCTATTGCTAATGAAAAAGATACAATGAGATGTTTATG  
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CAATACAGTT

>Sequence 592

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TTTTTTTTTTTTTTTGGCCAGCAATTAATAAATTTTTTTTTTTGTA  
GACTGGATTTTGGCATGTTGTCCAGGCTGGTCTGGGATTCTCGGCCTCAA  
GCAATTCTTCTCCTCGGCCTCCCTAAGTGCTGGGATTACAGGCATGAGC  
CACCATACTGGCCACTTCTTCAATCTTGTGGCTTTGCGTCCCCGATTT  
AAAATTGGTGAGAAGTTCCTTCGGCTGGGCTGAGGACCCGAGGTGATGGG  
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TCCTCCTGTCTTAAGTCTTTGGCCAAAGTGTCGGAAGGGCCCCATAAGA  
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GCCCCCGGTTCTATTAATAAAGGGGAGAGCCCTCGTTTTCTTCCGGGG  
GGGCTTTTTATTATAAGTATATATGAGTCTTCCCCTACCCACGGTCGA  
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>Sequence 593

GGGAAACATGGCAAAGATTGTCCTGGGGGAAAAAATTGTTCCCCGAAAA  
TCCCCAAAAAACTAGCCGGGGGAAAAAAGTAAAAAAGCCGGGCGCT  
OCAGGGGCCACCCACACCCCTTTTTTGGGGGGGGGGCCCCCCTCCCCAA  
CTCGGGGGACCCCTTTTGTCCCCCTTCTAATAGAGTCCCCCCCCCGG  
GGGGGGGGGGGGAANAAAAATTTCTTTTCTTCAATTAAAAAAGGGGG  
GGGGGGGGGGGGG

>Sequence 594

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TGGCAGCCAATCTCCAGGAATGTGGAGGAGAGAATGAATGGCAGTCATT

Table 2

TTAAAGATGAAAAGGCTTTGTCGAGCGGCCGCCGGGCAGGTACTTTNTT  
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ATAACTTAAAAAAGAGAGGGGAAATGACATCTGGAGATCTAGGTATGTG  
GCCCATTTGCAATTGAGCACATTTCTTGGGTCTGTTTCTCTATCTCTAAGG  
GCAGTCTCAAAACCCAGCTCAAAATACGACACTAACATGATGAACATGC  
ATGAGCTTTGAAAAGTGCTCTGTAGTCTTATGATGATCTAGAAGAGCACT  
GTCCAATAGAACTTTCTGTGATGATGAAAAGATTCTACTTTTGACCTATT  
CAATANGGTAACCACTTATCA

>Sequence 595

ACTTTTTACTCTATAGTACTCTTACTTGTATTATTACTAATCTTATTT  
TATATTAATTATATTTATGTAAATTTATAATACATATTTATAATTTTTAT  
TATATTTTTTATTAGAGCGAGCTCACGGGTGGCGGCCGCCGGGCAGGAC  
ATCGTCACCATAGTAAGAATGTGTTGGTCGACACAGACTAGAATGGTCTA  
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ATGTAATCAAGCGATACACAATATTTGAAGTGCAATGGCTTATTAAAGA  
GTAAATCAAAGATAATTTCTTTTATAAAACCTAAAAATAGGTGAATTTG  
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TTAATTGATTGGTGTCCAAAGTAAACATTTGGGTGTGCATATCTCTAAAA  
GTTTAGTAAAAATTTGGCCAATTATGCNCAAAAAATTTTTTAAAAATAGGGA  
AATCACACCCTTACAATTTTTTTTTTCTTAAATCAAAATTCACCCCCCT  
CCTTACTTACCAATAAAAAAGAAATTTATTTGAAACCTTCATTTTTTTCTT  
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TGGTACAATTGGGAAAACAAGTTAAGCTTAATATTTTATGGAAGTTATTT  
TATTTGTTTAAATGGAGGAAAAAATGTGCAGTTTTTAAACTCTTTGGGT  
AAAGAAGTCTCCAATTATAGTCTGCCCAAGGGAGTGGGTTTTAAATGAGAA  
TATTAATTTTTTTTATAAACGAGGTGTATCCTTCGGGCACGGATTTTAAG  
AAG

>Sequence 596

GAAAACGAAGTTGAGCTCCACCGGGTGGCGGCCGCCGGGCAGGTACTAT  
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TGCTCCCTAGCCAATTAATAAAGTTTCAATTAAGCACTTGAAATTATA  
TATTTAACCTGAAAAAAGTTGCTAAAAATCCAATATAAATGTAAATATC  
TTAACTTGCTTAACCCAGCTATCCCCAAAACAGTGTAGTGGGGCAAAAT  
GTTCAAAAGAAAAATCATCCAGTGCACGTAGATGGGCACCAAGAAGCTAA  
GCTTCCCTGGCGCCTACCCTGGG

>Sequence 597

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TTAGTCCACACAGTTGGTATAAAATCAGAAAATGCAAGCAAAAAACAAAA  
GGTCTGGAGTCTTAGCATCAGAAGGGCACCATATATACATCTACAGTTGG  
TGGCAATACAAGTCATTGCCAGACAGTCTTGGAGGCACAGAACAGCCC  
AGACCCAGCCAAGCTCTAGGAACTACGGGTCCCAGGGAGTTCTAAACCC  
TTGTTCTGATGCTCAACCGTAAAAAAAATGTGGGAGTGATGAAGGCTTT  
ATGATTTACTCATTATCCCGCGTACCT

>Sequence 598

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ATAGGCTCTCCTGGCCACGGCTGACTGTCTTCCTTGTGTCTCTACAGTG  
GACGTGACTCTGGACCCAGACACGGCCTACCCAGCCTGATCCTCTCTGA  
TAATCTGCGGCAAGTGCGGTACAGTTACCTCCAACAGGACCTGCCTGACA  
ACCCCGAGAGGTTCAATCTGTTTCCCTGTGTCTTGGGCTCTCCATGCTTC  
ATCGCCGGGAGACATTATTGGGAGGTAGAGGTGGGAGATAAAGCCAAGTG  
GACCATAGGTGTCTGTGAAGACTCAGTGTGCAGAAAAGGTGGAGTAACCT  
CAGCCCCCAGAATGGATTCTGGGCAGTGTCTTTGTGGTATGGGAAAGAA  
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TCACCGGGGGGGGATTTTTTTGGGCCATGATGCTGGGGAGGGCCTCCTTT  
ACAAAGTGG

Table 2

## &gt;Sequence 599

TTTTTTTGGGGCCCCCTCCCGTCCGGTAGAAAAATAGAGGTTCTGACTCC  
TCAGGAGCAAAAAACATAACCTGAAGAGGGAGGAAGTGGATTTGGGGTTC  
ACCATTTCTTGGGGCACACTTGATTGAAAACTGAGACTTCTGAAGAGAAG  
GCCAGAAGATACAAAGACAGACCATGCCAGTTGAATGCTGTCTTCCAAGA  
ACAGAAGAAAAATGATCCAGGCCAGGAATCCATAACACTGGAGGATGTGG  
CTGTGGACTTCACTTGGGAGGAGTGGCAACTCCTGGGCGCTGCTCAGAAG  
GACCTGTACCGGGACGTGATGTTGGAGAACTACAGCAACCTGGTGGCAGT  
GGGGTATCAAGCCAGCAAACCGGATGCACTCTTCAAGTTGGAACAAGGGG  
AACAACCGTGGACAATTGAAGATGGAATCCACAGTGGAGCCTGTTTCAGAC  
ATATGGGAAGGGCCCTTCATGCCCCCTGGAACGCTTGCCAAGGGAAAGCCTG  
GGGGACAAAAGGAAACCATGTGATGGAC

## &gt;Sequence 600

GTTTGTGCGCACACGCTCCGATGGCCCAGGTGACCAATGGCCGCAGGCT  
CCATGGCGGCTGGCTTCTTCCAGCCCTTCATGTACCGCGCTTCCCAGGG  
GGCCCCCGGGCCACCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCTCCC  
TGGCTCCCAGCCCCCTCCTCCCTGGCGCCATGGAGCCCTCCCCACGAGCCC  
AGGGGCATCCGAGCATGGGCGGGCCCAATGCAGAGGGTGACGCCTCCTCGT  
GGCATGGCCAGCGTGGGGCCCCAGAGCTATGGAGGTGGCATGCGACCCCC  
ACCCAATCCCTCGCCGGCCAGGCCTGCCTGCCATGAACATGGGGCCAG  
GAGTTCGTGGCCCGTGGGCCAGCCCCAGTGGAACTTCGATCCCCTACTG  
CTTCTCATCCCCCGGCAGCTACACCGGACCCCCAGGAGGGAGGTGGGCCC  
CCTGGAACACCCATCATGCCTAGCCCTGGAGATTCCACCAACTGCAGCGA  
AAACATGTGCACTATCATGAACCCT

## &gt;Sequence 601

TTTTGAGTACTAAGCTCGACGCGTAAAAAATAATAAAATAAAAAATCT  
GTGCAATAATTTAAAAATGTGCTCCCAGGAATAGACACAAATGTTTTGAGT  
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ATTTAAATCTGAAAGTCAGAGGTGATTATTGATAGTACTTTTGTATTTTG  
ATATGGACAGTTTATTCATTTGCATACAGTTATTGACTTTTTCCCAGCTG  
ATTTAAAGATAGTCAAGAAATTCGTCAATATAGCTGCCAAAATAGACAGC  
TACATTTTATGATATTGTCATCTTTTCTGNTTTTTTTTTCTTTTTTTC  
TTTAGCTATTTTACTTAAGCATAATAGCCACAATAGGACATATAAAAGAT  
TATAAATACAGAGCTTTATTATCTTGACGTCTTGGGTCTTTTAAGTATAT  
ACTTTTCTGAAAGGTATCCATTTTGTAGGCTTGGGTTTCTTATGAACATA  
CGATGTTT

## &gt;Sequence 602

GACCACATTCTATATATCATACGAATGAAATCGATTTTGTCTACCGTAA  
CATGTACCTCATACTGTATCTATAATTCTACGTATCAATGATCTAATAC  
CAGTGAAGACATCATGAATAGACAACCAAGACGAGGTGCACACCTTGGA  
CACCTCATCTGCGTGGGCGGCCAAGATCGGAGCAGCGACGCTGCGGGCT  
ACCCCATGCCACCCATGACCTGTAGGGACCACCTCTAGATGCCTACTCG  
ACTCAAGGACAACACACCATGTCTCCGCTCGATCTGGCCAAGCTGAACCA  
GGTGGCAAGACAACAGTCTCACTTTGCCATGACGCACGGCGGGACCGGAT  
TCGCCGGAATTGACTCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCAAGT  
TTTGGATGCATCTACTCAAACCCCATGAACTCACCATTTCAAAAAAC  
TTAATTGGCTGCATAAATCGGGCGCCAAGGCCGCAACATTTAAAGAGAA  
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TATTAGATCTGGCCCAAGTATTCTAAATAAAGGCGGGCTTTTCCTTCTGA  
AAAAGGCATGGGGGGGCGACTAAG

## &gt;Sequence 603

TACATCTACTTCTGTTCATATCGTTAATACTATCTATTCTTATTTCATCT  
AGACTAATTATTTTATATTCTATTTACTTTACTATACATATATATTATCA  
TATTTATATAATTTGACTCACCTCTAATCATTCATATTTTTTCTTATTAG  
TATGATGGGCGGCCGCCAGCGTCCGGGAAAAATTACCTGTCTTGACTGC

Table 2

CATGTGTTTCATCATCTTAAGTATTGTAAGCTGCTATGTATGGATTAAAC  
CGTAATCATATCTTTTTCTATCTATCTGAGGCACTGGTGAATAAAAAA  
CCTGTATATTTTACTTTGTTGCAGATAGTCTTGCCGCATCTTGGCAAGTT  
GCAGAGATGGTGGAGCTAGAAAAAAGCCCTTTTCAGTTT  
GTGCACTGTGTATGGTCCGTGTAGATTGATGCAGAAATTTCTGAAATGAA  
ATGTTTGTAGACCGAGAATCATACCGGGTAAAGCAGGAAATGACAAAG  
CTTGCTTTTTCTGGTATGTTTCTAGGATGTATTGTGACTTTTAACTGTTA  
TATTANATTGCCAATATTAAGTAAATATAGGATTATAATATTGTATAGGG  
GTTTTACAAAGCTTTAGACCTTTTACCTTTTCAGCCACCCCAAAGTGCC  
TTGATATTTAGAGTCAGGCATTGGTTATACATGTGTAGTTCCAAAGCAC  
AT

>Sequence 604

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CACTTATATTACATCACTTTTCTACTTTATTATTTTCTTACCAAT  
TTCGTATTAATTTTACTATCTTGTGATGGGGCGACACGCGTCCGA  
GACAATACAAAGTTACATTTTGGACCATATTAACACTGCAAGAAGACAG  
GGGTCTTACTGAAGATCTTTAGAAAACCTTAAATCCTGTCACAGGATATT  
TAGACATGTGTAGAATGTAGCTCAATTTTTTAAAAAGTAACTGACCTAGA  
GGGTGAAAGTTGAAACTGACACATTTTCAAATTAAGATTATGCTTTATTT  
TGTAACAGAAAACAATGTTTAAACACAAGCAGATCTGTTGTATGTAATAA  
GTAACACAGAGTTTTTAAAACAAATTTAATTATTAGCTTTATTGAAGT  
TTTGTTTTTCTTCCGAACCTGGAGTTATCATAATTATAAAACAGCAG  
TTTTACACCAGAATTAGCAGTGCCCTTTTCTTTTGGTACATACTGGAT  
TGGAACCTTTTCTTACTGGGTACCTGGGACCACTTTTATGTTAGTTTT  
TGATGCATAATTCTTTGGAATCCCTTTTATACAAAACCTAAATTGTTGTG  
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>Sequence 605

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TTCAGGAAATCTGGCCAGATCACCTGAATCCAAATGTTCTATTAATTCAA  
TACACGTTATCAAGTCAAATCCAAGCAAACGAGAGTCTCTCTCCACAACG  
GAGCCATGATACAATGTGATGGTCAAATTCAGATCCCGAGGTTTCAGAAA  
ATCCCCCAGGAAAGGAGCTAACGAATCCCTCTCCATCGTAATTTATCCT  
CATTAATATCTACTCCAACAAGCAATTCAATGCATGGATTGACTTTTAGC  
AGCCTTAAGAGTGAAGTATCACCATCCAGGTCTGCAACCTTCTTAGG  
CTCATGTTGATCCACTAAATTTTAAACGAACCTGGTACCTGCCCCG

>Sequence 606

AAAGAATTGAGCTACCGCGGTGGCGGCCGCGGTACTTAAATAATTACTGG  
CAGTAGGTTATAATTGGTGGTTTAAAAATAACATTGGAATACAGGACTTG  
TTGCCAATTGGGTAATTTTCATTAGTTGTTTGTGTTTGTGTTTGAATGAAA  
CCTGGAATAACAGTAAATTTGACTGTTTAAATGTTGGCCAAAAA  
AAAAAAGGTCCGCGGGGGCGGAGGTCAGGGACAAGATGGTGC  
CACCGGTGCAGGTCTCTCCGCTCATCAAGCT

>Sequence 607

TTTATTTCTTTTATATTATTATTATTATTAAATAATTTATTCTATA  
TAATCTTATTATTATTATTACTATTCTTTTATTATTCCTATTTTATAT  
ATATTTTANTNNCTTTGGAATGTGGACTGCACTGGCGGGCGCCGATGAGA  
AGAAGAAGGGGCCAAAGTCACCGTCAAGGTGTATTTGACCTACGAATT  
GGAGATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCGGAAAGACTGT  
TCCAAAAACAGTGGATAATTTTGTGGCCTTAGCTACAGGAGAGAAAGGAT  
TTGGCTACAAAAACAGCAAATTTCTATCGTGTAATCAAGGACTTTATGATC  
CAGGGCGGAGACTTCACAGGGGAGATGGCACAGGAGGAAAAAAAAAAAA  
AAAAAAAAAAAAAAGGTACCT

>Sequence 608

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GAGAACAGACACAGACCTGTCCGAAGGTCTCTGCAGGTCCCCCTCCGC  
TCTGCCGATCGACTTCCGCCTCGGGCAGTCAACATACTGCCAAGGAAATC



Table 2

TGATGTGGAAAGGAAAAATAGAAATAGTGCAGTTTGCTAGCCGGACACGCC  
AACTCTTCGTTTCGATTATTAGCTTTAGTGAAATGGGCTAATAATGCTGGC  
AAAGTGGAAAAATGTGCGATGATTCAAGCTTTTATAGTCAGCAAGCCAT  
CCTGTTTGTGGACACTGCTGATCGCCTGGCCTCGTTAGCTAGAGATGCTC  
TGGTCCATGCACGCCTGCCTAGTTTTGCCATCCCATATGCCATTGATGTA  
CCTGCCCG

>Sequence 609

TGACTCACCGGGTGGCGGCCGCCGGCAGGTACTTCCGCCCTTGCCGTTAG  
CTTGTTGAGAACGTGCTTCTTATTCCTGGCAGGCTTCAAGAACAGCTGCA  
CATGTGCCGCTAACTGACCGCGTTGCCATTGGCGACCTGGACTCTGAAC  
CAGGTTTATTCTAAACCCAGTGAGAGGTGAGGGGGAGTGATGAAAGGGGA  
TCAGCTGTATTTGTGTGTGTGTGTGTGTGAGCACCTGACAAATCTATGAA  
ACCGAGTGAAAGGAGAAATGTTAGATTCTTTATTATTTTATTATTTAT  
ATGGAAAGCTCGACTCTCCCTTTGGTAAGTCCGAAGCATGTTGTCTGTTT  
GTCCGTGACTGTCTTCTCAGGTCTGTGGCCTGTGATTTCCAGTCACCTT  
TGTAAGTACTGACAGGAAATTGACTGGACTGTCATTTGTGTGGAAGTCTA  
GGAGGGAAATGGGCCATTTTAATTGTATGAATTTTGGTCATAAGTAAGGA  
CTTTTTTTATGTCACCCATATTAGATATATGTACCTCGGCCG

>Sequence 610

GAGCACCGGGCGCGAGACTGNTTTTTTTTCTATATAAAGTGATACTG  
AAATATGCTAAATTAATATATTAATTTTAGTTAAATGCTGCTAATATGCAT  
ACCTCTTACTTGAAGGTTTTTAATATGTTTTGATAACTTTAATAACTTCA  
GGTGATGTCTGTATAATTTTTAAAGTGCAGCTCTCTCTAACAAATGTGCC  
CTACAACTCCTGATTAACCGCGTCTTGAAGGTTCAAAAAAAAAAAAAA  
AAAAAAAGGTACCTGCCCG

>Sequence 611

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ATGAGAAATTTGGCATGCCTTTGCTAATATTTACTGCAGAGTGTAATCCAT  
GTTTGATAGACATTATAGTAATGTTTGAGTAGGGTATTGTACTATATTCT  
TAGTGGTCTATACGGTAATAATATCTAATACAGTAAATACCTGCCTTGC  
CTTTTTCCCTGGATAGTTCTGTAATATTACGAAATTGTTGTACTAACCTC  
CGAGCAATGTGATCCTCAATTTGGTGTGGACTTAGGCTTCGCCCTTTTCC  
ATGTGGGTGCAATAGAGCTAATTATTGGCTCAAGTTTCTGTAGGTATAGA  
GATTCTTTCTCTACCAAGTAGACATTATAGTCTCAGGGGGACGTTCTCTT  
CTCTCGTGTGGGGTAACAAGGTTCACTAGAGGCCACCTTATAATTTTTCC  
CTTCCCTGGCCTTCAACCCCTTGTGAAAAAGGCCTTTGTCTACCATTAAA  
TAGGTTAACCATGGCTAGAGGTTTCATTTTCTTCCAAACAAGTATTCTT  
ATGACTTTCTAAGTTTTAATAAACAACCTTCTTCCCTTTTCAATATAAT  
GAAATGGTCGTAATAAGGAGGTGAATAAAATATTTCCCAACATTATAGTC  
CTTAAGCCAACCTTGTATAAACCTCAGTATTGGTTCTTAAGAAAGCAAAT  
GTCTTTGGTAGGTGAACCTTACCAATAGTTTGGTTCCTAGGGATGGATAT  
TCTCTTGGAAAGGGCCTAGGCAAGTAACCCAACAAAGGGAATGGGCCCCC  
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>Sequence 612

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ATGCAGTTCAAAATACTGCCAGTTTTCGAAGAAATTTGTAAAGTTGAAC  
ATGGCCATCTACTTTCCTTAAACTTTTCTCACCACACCCACCTTCCC  
ACATGCATGATATCCAAGGTCGACAGACCTGGATTAGAATCCACTCTCAA  
GCTTCTCATGCAGTTCGTATTGATTTTCTGCATAAGAAAGGGCTGCCTC  
TAGAACACAGTAAGTGATTTGCCAGTAGTGACATTGCCTACATATAGC  
CAAGTGTTATAGTATACCAACTTAGTATATTTTCAAGGAGAGCTAAACC  
ACCTTTGTAATGGTTTGGTTTCTCACTGTTATCTTCTTCTCTATAATT  
AATTTATTTTAAATCTACAAATTGACATAGGGCTAAAAGCTTCAATATTT  
ACAAAATATTAATTAATGTAATTGTTCCCAATTATTAGAACTTTTTTCC

Table 2

ATTTTAAAAATGGTTGCCAACTTACA

&gt;Sequence 613

GGAGAACTACTGTAGTCGCCCCGNCGTATTTCTGTAGATCCCACCCCCAGG  
AAGNCCACTTTGANGAGGCCATCAAAACGAACGGTTATACCCCNCCCACA  
NNNCACNCNGAGGGGANGTTTACAAGNNCACCCGGNCCCCGCCTGGGG  
AAGGAAAAGCTAACTCCACGTCTGTTCCAAAGGCCTCTGCTGGTATTTAC  
TTTACGAGAGGCCACCTTATCCAAAGAGCTATATGCCCTGGGGGGCCTT  
GATGGGCTTCACACGTACCTGCCCC

&gt;Sequence 614

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ATAGNTAAGAAACATTCTTTATAAATTTTGATCCCTCCGTTCAAGCCAAT  
ACCATAAATTAATTACAGATGGATATTATATGGTAACGGGTATTTACAGA  
AGGAAGGTGTTATTACGGAAAAAGCTAACGGCACGACGTTTATTTTCC  
CCCACAATCTTTCATACAGGAACCTAACAAATTGAACTTGCAAAAGCACTA  
AAACATCACATGTAAACCCAGCTAACAGAAAAATACATTACAAAGCGTTG  
TTGGTGGTGGTGTGTATGTGTGTGCTATGGGTCAATGTGCTGAAGAAACA  
GAAGGGAGACTTTGGCACGGCTCATTTTTTTCAGTCTATAGTTACATGAA  
GTTTACAATTAGGTGGCCCTATAAAAAGGAACCCCTTATTCAATACCCCA  
ATACCAAATAAACCCCTTTCTTTCACATACTTAAAAAGAAACCGGGTTAA  
CTAAAAAGAGGAAAGAAGAAGGCC

&gt;Sequence 615

TAGAGGAGCTCACAGCGCAGCGCGGTGGCGGCCGCCGGGCAGGTACTTT  
NTTTTTTTTTTTTTTTTTTAAATTTCCATGTATTGGCCTTAATCAAACCTAT  
AAGCTGTGGAGTGGCCAATATACTCCATTGTGATTATACACTGATTTCCA  
TCACCTGCCTTTGTACTATCAACTCTTATTAGATTAAAAGGAAATAGACT  
GAAATTGGGAGNGAGGTCAGCGGCTGGCTGGATAAGATGTTGGGCTCAGA  
AGAATGTATGTGAAAGACACCAAAGGCCTCTCCTGTATGGACACAAAATC  
ATATAACCACTGTGTCTGAGCTGGGTTGTGGATAGTCTTATTTGGCAGAG  
GGGGATAGCCATTATATTCTATGAACCTTGCCAGCTGTACCT

&gt;Sequence 616

TAGAGTGCATCCGCCGCTGAGGCGGCCGAGGTACTGTGCCCTCTTTCTT  
CACTAGGTGACCAGAGTGGTTTTGACTCCTGTGGTGCTTGAAGTCATTCT  
CAGGGGTCTCTATGACCTTTTCCCTCCTGCAGTTCACTCTAGTTTCTTCT  
ATTTTCATCATCCGCACTGCTCTTAGCATCGAAGTCACTGTCTGCATCTGG  
TTCTCTACTTTCACATCAGTTTGAAGAATGCATTTCTCTTGTGGTATTCT  
GTTTTTTGAACTTACTTCATTGGAGAAGCCCCTTGATTTTTCTTCCTTA  
TACCAGATCTGGCTTCACGAAAGCTGCATTTAGGTACCTGCCCC

&gt;Sequence 617

GTGCAAGGCCCTCGCTATACTAATTTTATAAAAAAAACTTTCACAAATT  
TCCCTTGGAAGTGGAAACATAAAAAAGGATGCGAATTGGTGGTGGTAAACT  
GGGTATTTGGAGTTATATAAGGTTCCCAAAAAGGCATATTCCTTTCAAAA  
TTTTCAAAAATAAAGAATTTTTTTTACTGGATTTTAAATGGGGGTGTGCCA  
ACTCATTAAAGGATTTTATAATGGGTGGGGCCCCCGGGCCCGGCTTCGAA  
AAAACTCTTTGGCTTCTTGGAATGAATCCTGGGCTGGGGGGTTCGGGTG  
TGGAAGGGGTTTAGTTATTTAAAGGGGGGAAATGGG

&gt;Sequence 618

CAGCGTGAGCTACCGCGGTGGCGGCCGAGGTACTGGGACAGTTGGGTG  
CGTTATGGATCATAACCTGAGGAGCCGGGGGAAGCTGGCCTTGGGTGTTT  
TACCTCAATCATATATCCACACAAGTGCTTCTCTTGACATTTCTCGAAAA  
TGGGAGAAGAAGAATAAAATTGTTTATCCTCCACAAGTGCCTGGAGATCC  
TGAGACCAGCAGAAATCTACCACTGTGCAAGACAAATAAAATATAGCAAA  
GACAAGATGTGGTATTTGGCAAAATTGATACGAGGAATGTCTATTGACCA  
GGCCTTGGCTCAGTTGGAATTCAATGACAAAAAAGGGGCCAAAAATAATTA  
AAGAGGTTCTTTTAGAAGCACAAGATATGGCAGTGAGAGACCATAACGTG  
GAATTCAGGTCCAATTTATATATAGCTGAGTCCACCTCGGGACGAGGCCA  
GTGCTGAAACGCATCCGCTACCATGGCAGAGGTGCTTTGGGATCATGG

Table 2

AGAAGGTTTATTGCCATTATTTTGTGAAGTTGGTGGAAGGGCCCCACCT  
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GCAGCTTCGCAGCCCGACCATCGTTCACACTCTATGATGAGGAGAATTAG  
ACTCCACAGTGTATATATTTTGGCATTATTTTCTAAAAATAAACAAAAA  
TGGAAGCCAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAA  
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TTGGGTAATATGGG

>Sequence 619

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CTTCAAAAAACATGTGATGGTGAGGAAATCCAGTTTTAAAGTCTTGATT  
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AACCTATGAAATTTTCTCAAATTAGCTTTCAGACACACAAAAAATTGC  
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>Sequence 620

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>Sequence 621

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>Sequence 622

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TTTTAAATGCTTTGCCGTCTTTAGTTAAAAAATTTTTAGGACTTTGG  
CCCGGCTTGAACTTTTTTAAAGAACGGGGAGAAAACCCCTCGTGTGCAT  
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>Sequence 623

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Table 2

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>Sequence 624  
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TATAAACAGCTGTTTAAGGATATCCTTATCTAAATTTCTGCCAATGAGGA  
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>Sequence 626  
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CTCGGAGGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGGTGGCCCTTGC  
AGATGTA  
>Sequence 627  
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GCAGAACCGGTCTGAGCCTCTCCGCGCAGAAGTGCCCGGAGCATGGCGGT  
ACCT  
>Sequence 629  
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CGTGCCATCAGTGTGACAAAAGACCATCGACACCAAGACAGTGTGTGGA  
ACAGTGCTGTGGTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACC  
GCTATGGGGAGGATGTCAGATCGGCATTGCTGGACCCGGATTGGGTGTGT  
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>Sequence 630  
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CAGAATCCCTTTTGTCTGTAATTGCACCAAGTTTAAAGCCTTGGACAGA  
GCAGATCGTTTAAAACTTTGTTTTTCTTAAAGCTTACAGTGTGTTGGCTA  
ATTCTCCTCCCTTTTTACAAGACGGGGGGCCGAGGGTGGACACTGGTGG  
CAGGTTAAGGGATACTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTA  
CATGGAGAAATTAGGGGCTGATTTTTTAACTGTGTGAGATATTAACCAG  
CCGCCCTGTTATAAAATCAGGAAATCCAAACAGCGATTTACACCGATTAA  
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Table 2

CATTTAAATATAAAAAATTAAAAGTTAAACTCTAGCCCTTCAGTGAAGG  
 AGACGTAAAAATGGCGTGGGTAACAACAACCTACCAAAAAAAGAAAAA  
 AAAGAAAAAAGGAAAGGAAGGAATAAAGAAATAAAGGGAGTAAAAA  
 AAGGAAAGAAAAAAGGGACAAAAGAAAAAATATGTTTGGCCAGTATAA  
 TACGTTACATATAAAATGCATCTGATTACATTAACAAGGAAAAAGAAATA  
 CGAGGATGGAGCATCGGTGAGGAAAAACACGTTTCTCATTTACACCTAT  
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>Sequence 631

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 CCCCTAGGATGCACCGACTGGTAGTGATGAGCCAGGTTTACAAGCAGACA  
 CTGGCTAAGAGCTCAGACACTCTGGCGGGGGCACATGTAAAGATTTCATCG  
 TTGCAACGAATCTTTTATATCTGCTCTCTCCCTTACGATCTGTGACAA  
 TTGAGAAGTGCAGGAATAGCATCTTTGTCTTGGGCCCTGTAGGGACTACA  
 CTTACCTCCACAGTTGTGACAATGTTAAAGTCATTGCTGTTTGCCATCG  
 TTTGTCCATCTCTTCTACAACAGGTTGCATCTTTA

>Sequence 632

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 ACACAACCTTTCACAGAGAGTGTGTCGCACACATTCACCATCAGCTTCAA  
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 CCATGGCGGTTTCCCTCCTACAGACTCTCGCAGGCGCCTGTTTCAGCCAG  
 AGCCACCTACAAGCCCCCTCCCCGCGTACCACCACACTGTCCCAAATTAC  
 CTCTTCATTACCCAAATCAAAGAATCTTTCTGTTTTCCAATCCTCAAAA  
 GGAATGAAGAAAAAACCAAGAGCAAACTCAAAAGATGATTTTTACCATAA  
 ACCTCAAATGTGGCTTAACAAGTACCTGCCCGGGCGGC

>Sequence 633

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 CTTGA

>Sequence 634

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 GGTCTCTGTCTGTAGTTACTGGGATTATCCAGATACACTATCAATGATAC  
 AAATTCATAGGAGTATTAATGCATTTCTTTAAACACAACCTTGATTAAGAA  
 GCAAATATGTTAAGCAGTTTTCTTTTCTGCTGCTAAATTACAGTTAGAC  
 ACTTCAGTATCTTCTCTTACATGTGTATATAAATTAGTAAGAACCTGCA  
 TCCAAAGCAATGAGTGTGTGTATGTATCTATATATTTATTCTAACTC  
 AGCACTTCAGAAAGCCTTTTTGAGTTACAACAATATTTAGTTTGCCTCAT  
 CTGTAGAGGTAAAATTTCTATATTACCAAGCTCCAGAGGAATATGATATT  
 TTACAGGCACAATTTCTGGCTGTAGTCCCTGGGGCATTTATTTGCTTGC  
 CTCCATGGGATGCTGTTAGAACAATTGTTAGCCGGAAGAGAAGAAAGGC  
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>Sequence 635

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 GAGGTTATTTTCAAGACACACACTTGCAAGTAATCTTTCTATAGAAATGG  
 CCACAGCATTATAATATTCAAAATATGGAAGATTGACAGTCTGAGGATTT  
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 GCTTTGTCACTCCAGAAAGCTGAAAGTCAACCGAACAATGAAAAAAGTC  
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Table 2

CTGAGAAATGTCAATCCTTTCAACTCTAGAGAATGATGCNATGAAGTCGG  
CTTTGAGCCCCACTGCCGCTTGCGCGTGTITNCCATTTGCCTTCTGCATT  
CGCACCTTAATGCAGATGTACCTTGCCG

>Sequence 636

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ATTTATGTAAATATCATTATAAGTCGACGATGACTCACGCGGTGGCGGCC  
GAGGTACTAAAGGGCAAGGTTCAACCACTACAAAAAGGAAGTTGTCTAAAA  
GCAAGAATTCAATTAAACGCTGGGTAAGAAAAAGTCAAAACACTAATGAGTT  
GTCCATGAAGCCAACTGCTAAGAACGCGCTCAACTATACGCGACATGAAG  
ACACTACGCACGAAGCCTTACTTGCGAGTCTGAATTTCTATTAATAAG  
GGCAGAGTGAGGGAGAACAAGAGCTACTTCCGTAACATTTTAGTATCCA  
GATAGTACCTGCCCG

>Sequence 637

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TCCTTGAGCTAAGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTGCAA  
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ATCCCTCAATAAGTGCCAGATATTTCTTCAAAACCTGTCTCAAGAGAAG  
ACCAATGTTTCATATAAATGGTGGCAGAAATACCAGAAGAGAAAGTTTCAT  
TGTGCAAACTCAACTTCATGGCCTCGCTGGCTGTATTCCTTATATGATGC  
TGAGACCTTAATGGACAGAATCAAGAAACAGCTACGTGAATGGGATGAAA  
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>Sequence 638

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TAGTTTACAGAACAACCACACAGCAAGACCAAGCTTATGCTGAGTTGACG  
GAACAATGAGTAAACATAAGGATATTACTGTGACTTTGAAATTCTGAAAT  
TGTTCTTTCTTAACTTTTGCATTAATAATCACATTTATTTTATAAAATAAT  
GAAA  
AAG  
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GGGGGAGCCGGGGTTTTTCTTTTTTGGGGGCCCTCAAAAACGGTTTTT  
TTTTTTACTCCCCCCCCCAAAAAAAAAAAAAAAAAAATTTTCCCTCCCATTAA  
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>Sequence 639

TGCGATGACTCACCGCGGTGGCGGCCGCCCGCACAGGTCCTGGCCCTTA  
ATCCCATCAGATTTGTAGATCTTAACCAGGCAGTCACCGAGGCCTCGGAA  
GTCCCTTTCAGCTCCAGCTTTACCCACATCAGCTGCTAGACGGGTACCT

>Sequence 640

TGGAGACGATCGAGCTCACCGCGGTGGCGGCCGCCCGGCAGGACGCGGGG  
GCTGTCTCACCGGTGAGACCTGGAAGCGGGCGAGTCTCGTGTGTGTCGG  
ACCTGCAGTCCCTGGCCTTCCGCCACCATGGAGTACCT

>Sequence 641

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TTCAGACAACACATGACTAAGACAGAATGAGACCACTCTAGTTGCCCTCAT  
GGGAACTCGGGAAAAGACTGCAAAAACAACATTGTTTCTCCCTTTGGAA  
TTCTGGAGTTATAAGGCAGAGGTCCCCATCTTCCCGAACTGGCCTATT  
CGCTAGAAGCAAGATGGCTGAACCTCAATACTCATGTGAATGTCAAGGAAA  
AGATCTATGCAGTTAGATCAGTTGTTCCCAACAAAAGCAATAATGAAATA  
GTCCTGGTGTCTCAACAGTTTGATTTTAAATGTGGATAAAGCCGTGCAAGC  
CTTTGTGGATGGCAGTGCAATTCAAGTTCTAAAAGAATGGAATATGACAG  
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Table 2

## &gt;Sequence 642

GCCGAGATGACTCCCCGGGGGCGGCCGGGACTTGGAGAATATTTCCACAA  
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CTCAATGATAGTGAGGTCCATTGCCGTCTATTAAATGGAGATGATTCCAT  
CTTGTCTACAGACACTGAAATACCTGGCTAAAAGCCGCCTTTCTCTGCG  
CTGCTACCAGCCCTGTACAGGTCCCGGCGCTCTACCTCCCCGCGTACCT  
GCCCC

## &gt;Sequence 643

GTTGAGTGAGCTCCCCGCGGTGGCGGCCGAGGCACGAGAAGCTCACTGGCT  
GTGCTAAACCAAAATGAATGGAAAGCGCCAAAAGTGATTTTATACCAAGGG  
TCCATCCATACAAATAAACAAAATCCTATCCTCTTCTTTCTATATTGTGT  
TTCTTACATTTCTTATACAAATAACAGAATGCTTCATTTTATTCACCTTCA  
ATAGGACAAAAGTCCTTAAAGAAAGACTGAAAAGAGCTGATAATCAAAAATC  
CCAAATTTTATGCTTATTTTGGTTTAGGGCTATCAATTTTCTGACATAT  
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ATGTCTTGAAGCACTCTGGCAAGTTACATGTATCCCATGTTGCTTTTGGT  
TTCCCATCTCTTCTTTGCTTCAAACCCCCATGCAAGTTTCTTCTTTTTTC  
GGGCAGGCTGTGAATATTCAACCTCCTTTTGGCTTTTACAAAGGTGTGG  
CAGGCAACTGCTTTGGCAATTTTACACCAAGCTCTCGAGTAGCTAGCTG  
GTTGCTGCGGTC

## &gt;Sequence 644

TGACGACGTGGAGCTCCCGCGGTGGCGGCCGAGGTACACCCTCTGGCCTC  
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CTTGGTTTCGGACCCAGGACATCCTGTCCGCAAGCAGCTGCTACTTCTT  
GGGCTTCTCTAGAATATTGAGGAATTTCCCCCGTGCATCTCTCTGGACT  
CATCCAGCCCCAGCTGATAGGCTAGGTCTGTAGGCCCTCGAACCTTCTCC  
ATCAAATTAGCCGTGGTGAGACTCCCCAGTTCTTTCAACATGTCGATGTC  
ATCAGCTTCTATCTCAGCCATCCATTTGGGTGGAGAACTAGTAATAGGAC  
TTTGAAGGAAGCTGCAAATTCAGCAACACCTGGTAATTGTTCTGGCCAA  
AGATCTGGTGAGGCACGGTCAAGTTTTTCAAACCTTAGCAAAGATGCTTC  
CAGATCTGTCCCGTCTGTGGGAGACGCCATCTTCCAACCCATGTCACGTC  
CCCGCGTACCTGCCCGGGCGGCCGCTCGAGCCAGGAACCGTAAAAGG

## &gt;Sequence 645

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AGCGTTAGCCTCACTCGTGTGCTTACTCACTTTGACTGCCTTTTGTCTA  
TTTCTGGGAGGTTGGTAGAATGAAAGGGATGCTCCAAGGCAAGCAGATGG  
CCTGTCCACCTCCTATATATTGACAGTGCCAATGAGTGTAGAGTCTTGCT  
ACAAGAAACAAAGTCATGAGAAATGCCAGGCTTCTGTTACACCCAAAGA  
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## &gt;Sequence 646

TCCACTTCCCTTTCAATTTTGTAGTGATTATTGTTATTAATATCTCTTT  
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AAGCCTGGTCCCTTCTTGTGGGCACTGTGTATGGGCGGAGAAAATCCA  
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## &gt;Sequence 647

Table 2

GGACGAAGTCGAGCTACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTT  
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GAAAAAAAAGGGGGGTTCTCTCTCTAAAAAAGAGAGGGGG  
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CCCCACCACTCACTTATTTTATGTTTTTTTCCACTATCAAAACAACGCTG  
TTGTTTGTGG

>Sequence 648

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TTT  
TTT  
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CCCCCACGGGGACCAAAAGGTTAACCCCGGGGACCCCGGGGGGGGGGGG  
CCACAACCCCAAGGGTGTTAAACACGGGTGGGGGGGGGGGAAAAAAGG  
GGGGCCAAAGGGGCCCCCCCCCTTTTCCCGGGGGAGAAAAAAGGGG  
CCCCCCCCCGGAGACCCGGGGGGTTAAAAAAGGGGACCCCCCGG  
GGGGGGGGGAATCTATATAAAGTTTTATCCCCCCCCCCCCCGGGGGGG  
GGGCCCCCCCCCTTTTTTTTCCCTTTTGGGGGGAAAAAAGACCGCGC  
CGGAAAAAATATTTTGGGGGAAAAAATATTTTCAAAAA  
AATCCCCCAAGGGGGG

>Sequence 649

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TCATTCAAGAACACGATTCAAGAGCTTCTGCTGTGACGATAGGGGGCATCAA  
TAGTTCAATTTCTTTTTATTGTCTGCTACCATTCATTGTATGGATTCAA  
CCTAGTCTGTTATTCATTCTCCCAGGCTTCCACCAGGCCATCTCTTC  
ACTTCGGGGGACCT

>Sequence 650

GTGAGAAATGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGTGGGGAAGAA  
GGTAAGAAACAGTTGATTAACACCCTGTGTTCTGGCAGGTGGGATCAGCA  
ATATGTAATCCAACCTCACCTCCATGTTCAAGGATGTCCCTCTGACTGCAG  
AAGAGGTGGAATTTGTGGTGGAAAAAGCATTGAGCATGTTCTCCAAGATG  
AATCTTCAAGAAATACCACCTTTGGTCTATCAGCTTCTGGTTCTCTCCTC  
CAAGGGAAGCAGAAAGAGTGTTTTGGAAAGGAATCATAGCCTTCTTCAGTG  
CACTAGATAAGCAGCACAATGAGGAACAGAGTGGTGACGAGCTATTGGAT  
GTTGTCACTGTGCCATCAGGTGAACCTTCGTCATGTGGAAGGCACCATTA  
TCTACACATTGTGTTTGGCATCAAATGGACTATGAACTAGGCAGAGAAC  
TCGTGAAACACTTAAAGGTAGGACAGCAAGGAGATTCCAATAATAACTTA  
AGTCCCTTCAGCATTGCTCTTCTCTGTCTGTAACAAGAN

>Sequence 651

GAGAATGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCGTTATGCAGAGGT  
GTCAGCCCCCTTCTCTTCTCTGGAAATTAACATTGGCTCCACCTTCCAG  
CAATTGCTGGACAGGTCAACATCTTCGTTTTGAACAGCTTTAATCAGCA  
AGTGATTGTCTTCCACTGCAGCCCTTCTACCGCTGGAGGACGTGGGTCCC  
TCTGGGGGTTGTTATGATCCCTGCTCTCCATGACGGTAAATGCCACCTG  
CTACCACTTTTAGCCTTTTCTTGAGAAAAATGCAAATTTATCTCCTAGCA  
CTTAATCAAAGAAGCTTTGAGTGTAATTTGGGATTCTCTGGCAACAGAGC  
AGCAGTATGAAGAAGGAACAATGTTCTCAGTCTTCTGACATTCCACCTGC  
TCAACTCAGACGCTCTCAATTATTCCTTTGGCAGCCGCAAGCCTGGGAAGA  
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Table 2

GAAGGAAAGAGCATTCTCCTTTAGGGCAGCAATCACAAAN

>Sequence 652

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CAAAATGCTTGACTCAGTGATGCAGAACCTTTCAGAGTTAGCTGGAAGCCA  
CAGCCCTGCCTCTTGATGCAGCCTGGATCCAGCCGGTGTGAAGAGGAGAC  
CCCTTCCCTCTTGTTGGGGTTTGGATCCTGTGTTTCTAGCCT

>Sequence 653

TTTTGCCGCCTGACTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACCTGTG  
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TGGTGGTATTGAAAAATGATGAGATTTCTCTGACAGAGAGCTTTGTCCTA  
GTTTTTGTCTTTCATAGGTCAAACCTGGCAATATTCTCTTGCTGCAAGA  
TAAAGTGTTTGTGCTTCTATCACCATATGCATGAACATGTAAGAATCAGA  
TACAATTTCTGCTTCATCAGTTTCACATGTTTCATGTTGTCAGTGAAGAAA  
TGCACTCTACTGTTTATAGCTCCCAAGGAGACCCCAATCCTTTTTTTCTT  
TTGAGATGGAGTCTTGCTCTTGTTGCCAGGCTGGAGAGCAGTAGCGCGA  
TCTCAGCTCACTGCAACCCCACTCCTGGGTTCAAGTGATTCTCCTGCC  
TCAGCCTCCCAAGTAGCTGGGATTTACAGGTGCCCGCTACCATGCCGGGT  
AAATTTGGTTTATAGGAAAAACGGGTTTTCCCTTTTGGCCCGCGGTTTTT

>Sequence 654

GTGTGGTCGAGCTCACCGGGGGCGGCGAGGTACCTGTTACCACTTTAAAA  
GTAAGTTCTCCATCCCAATAAGCCATTTAAATTCATTAGAAAAATGTCCT  
TACCTCTTAAAAATGTGAATTCATCTGTTAAGCTAGGGGTGACACACGTCA  
TTGTGCTATATGATGTGACTTCCCTCCCCCTGCCAGAATACTCCTTGGT  
CAATTGTAGGTATTCTTTTTGGTTTAAATTTTTGCCAATGTAATTAAGAAA  
TGGTATGTCATTTTTAAAAATTTGTATTTCTTTCATTACAAATAAGATTGT  
TATGTCAGTATTGTTATTGGCTTTTCGTATTCTCTTAACGTGAACCGTC  
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>Sequence 655

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GGTTTTTGCTGGACAAACACCAGACACCACCTATGATTGGAGAGGAAGCG  
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AGGCAAGCAATTTTCAACAACAAAGTCTTTGCTAAACTCCTTCATACAG  
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>Sequence 656

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CGGGACTAAAGTTACTTTGTGCTGAGAGGGGGAAAGAAGCACAAAGTTTG  
GTCTGTTGCGTAATTGAATTTTAACTCTTATCCACAACAAACACTTT  
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AGGTGAGCATCCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTG  
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TCTTGATCGTAACTCTGCAGGCTGGGATTCCAGAGCTGCAAACAACCAC  
TGAATTCGATCTGTAAACCTGTTGTCAATTTGACGTTTGCAGGCAGGCATC  
AACATTTACATTGAGATTCAATAGACGCTACTACTACAAAGGAGCTTTAT  
TGTTGCAGCTTAAATGGTTGCTGCGGGAACACTGAAGGGTGAAGTACGAC  
TTTTTT

>Sequence 657

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Table 2

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&gt;Sequence 658

CCTTCTGCTACGTCTGTATTCTATTCCTTGTGAAATGCTCTTTTTTAATA  
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GGCTATGGTAATTGAAATGGGGGCGATGGAGCTCACGGGTGGCGGCCGAN  
GTACCTNGTGGGCNTTAGGTCAATGTTGTTATACACTTTCACAAAAGATT  
GTATCTTTGATCTCTTGGCGATCTTCTTCTTGCCCATGGCAGCTGTCCT  
TTGCGGGGGTAGCGGTCAATTCCAGCCACCAGAGCATGGCTGTAGGGGCG  
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AGTAGCGTCCAGCCAGGACAAGCACCACTTCCCAGG

&gt;Sequence 659

GGAGTGAGCTCACCGGGTGGCGGCCCGCCGGGCTGGTGCGCCACAAGGCA  
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ACTAAAGTTACTTTGTGCTGAGAGGGGGAAAGAAGCACAAAGTTTGGTCT  
GTTGCGTAATTGAATTTTTAACACTCTTATCCACAACAAACACTTTTTCG  
TGTCTGTCTGTGTAAAGACATCAGATATATTACAGATTTTCAAACAGGT  
GAGCATCCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTGATGG  
AGTGAGGAGATTTGGTTGAATGAACGCTAAGATGGCCAGACGCACCTGTT  
CGATCTCAACTCTGCAGCCTGGGATTCCAGAGCTGCAAACAACCACTGAA  
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&gt;Sequence 660

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GACTGGAGCCAGCTGAAAACCTGGGAGACCGACCCAGCCAACAACAATGT  
CGGTCTCTGTCTTGGCACCTGCAGGAAACAAGCTCCTACTTCCAGAAAAA  
GTGCTCCTGGGACTCCAGGATACCAGGCATCTGGGTAAGCTACAATGCTT  
AACCACCTTAACACAATCAGGAAGCAACAGCCATGCATTGCGGAAAGGAAC  
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&gt;Sequence 661

GGCGTGGGATCGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGAGAC  
TTTTTCTCACCATGAATGTACCCAGAGGTCAAGAGTCGTGGGATGAA  
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T

&gt;Sequence 662

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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGACAAAACAACGA  
GTTTTTTTAATTTATTTAGGGGGAAGGAGGGGTGTCTTTGGATATACCAC  
AGCGAGG

&gt;Sequence 663

GTAGATGGAGTTGAGCTCACCGCGGTGGCGGCCGAGGTACTTGTGGAAGG  
TAGTGACCAGCACAGCCAGCGCCTGCTCCAGAGAACTGCACATCA

&gt;Sequence 664

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GACCCCAATTAAGGGTTTGGGACCCACTATTTTTTAATAACGCCAGCACC  
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ATCTAGATATCTTGCTCAGATTGGTGACTCCGTCTCATTGACTTGCAGCA  
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Table 2

GATCCTGTTAGTTTTGGGGACGAACACTCTTAACCTGTGCACACAACTT  
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AAAGATCAAAGATTATTTTGAGTGCCCTT

>Sequence 665  
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CATCACCTCCATTTTCTAGGTGTCATTACAGTGATCATCATAGGCTTAT  
GTCTTGCTGCAGTAACTTATGTTGATGAAGATGAAAATGAAATACTTGAA  
TTATCATCAAACAAAACATTCTTCATCATGCTGAAGATTCCAGAGGAGTG  
TGTTGCTGAAGAGGAATTGCCTCACCTGCTCACCGAAAGGCTCACAGATG  
TGTACCT

>Sequence 666  
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GGATGCAGTCAATCTTGTAACATTTTTTGAATGTCCAATGTGCAAAGC  
ACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAACCTCTTGCTCTC  
AAAGATG

>Sequence 667  
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CTAGCAAGATGTCTCATCTGAGCTTCCCAGTGCCCACTTATCTGAGGCC  
TGGGGCTGAAGCCAGCGCTGACGGAT

>Sequence 668  
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TGGTGCTTACTTTGCAAATCTTTCCATAAGTCAAGTATTAGTGTTAACA  
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ATAGGGAGAGAGAGCAACTACAGAAAGAAGACAGAAGGGGTTCTGCTTTG  
AATAGTAAGGCTTGGGAATAGCTGAATTGTAAACAAATCTGTCAAGTCCA  
AAAACGAAGATATTTCAATTCACCGCTGACTACTGAATGGGAAAC

>Sequence 669  
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GCCATGAGGTAGTCCCTGACCATCTGAGAACCAAGCCTGACCTGAAGTG  
GAAGAACAGGAGAAGCAACTGACGACAGATGCTGCCCGCATTGGTGCAGA  
TGCAGCCCAGGTTGGACTGAGTCACTGCCTTGCTGCCCCATCCCCATCCC  
ATCATGAGAAGCTAGGCATTACCATTCCTGTCTAGTAGGGATACATAGTT  
GGTTGCGCCTAAGTTGCTTCTGGCAGAACCCAGGAATAAATTTCTCCAT  
ATCGTTTCCTAGTTACCTAATCTCTGCACAAATTTGTGTGTTACAGAAG  
CAGATCCAGAGCTTGAATAAAATGTGTTCAAACCTTCTGGAGAAAATCAG  
CANAGAGGAGCGAGAATAGCAGAGTGGGAGTATGATGCGACTGGTGGCTA  
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>Sequence 670  
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ATTAGCTGACTTTGGTGTGGCTGCAAAAATAACAGCTACCATTTGCAAAAC  
GAAAATCTTTTATTGGCACCCCTTACTGGATGGCCCCAGAAGTTGCAGCA  
GTAGAGAAGAATGGTGGCTACAACCACTCTGTGATATCTGGCAGTAGG  
AATAACAGCAATTGAACCTTGGAGAATTCAGCCACCTATGTTTGGATCTC  
CACCCAATGAGGGCTCTCTTCTTAATGTCAAAAAGTAATTTTCAGCCTCC  
AAAATAAGGACAAAACAAAATGGGTCATCAACATTCATAATTTTTGT

Table 2

CAAAATAAGCACTAATCAAAAAAAAAAAAAAAAAAAAAAGTACCTCGGCCG  
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>Sequence 671

GTCGATGTTGAGCTACCGCGGTGGCGGCCGAGGTACGCGGGGTCTTCTCA  
TGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCT  
CTCCCTGTCTCCGGGTAAATGAGTGCGA

>Sequence 672

GATGACGATCGAGCTCACCGCGGTGGCGGCCGAGGTACTCTTCTGCACTG  
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AAATTCCTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTCCGATGCC  
AGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATAC  
CCTTCCACTTGGAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAAC  
TAAAAAGAGAAGAGTTAATTACCTGAAAAGCAAGAGAAAAACAAGAAGGG  
TAAATTTGAACCAAGGGAAATCATTTAAGAAGTGCTGGTATTTTTCAA  
ATTTCTGTCAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAATAAAGG  
ATGGAGACATGCTTATTTTATTTAACTCCCCNNNNNAAAAAATAAAAA  
AAAGTACCTGCCCC

>Sequence 673

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TCCTAGCTGCGGTATCCAGGCGGCTCGGGCCTGCTTGAACACTCTAATT  
TTTTCAAAGTAAACGCTTCGGGCCCCGCGGACACTCAGCTCCGCGTACC  
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>Sequence 674

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TAACTTGCAATAAAGAGCTGTTCTTTCTGTGGCCTAGACTCTTTTCAC  
TGATCTCAAAATAAACTGGTTTTTTTCAAAAAAAAAAAAAACAAAAACAAA  
AAAAACACAAAAGCTGCATGCTCTAAAATTACATGGAGTTAGTGCTATTCT  
TTTTTCCCTTTTTCAGCAACTTACACAGCATTTTTTAACACCTTTTTTTT  
CTAGTTTTTTTGTTCGGTTTTGTTTTCCATCAGGAATTTGAGTTCTCTCT  
AACCCAGCTTACTGTGGGACATAGGAAAACCTCAGTAGAAATACCTTTGGT  
GATCTTGTGAGTTTAAAGTCTGATCTTGATCTTAACTCAGTAAGCCACT  
ATCTGCAATTTGTACCTGCCCC

>Sequence 675

GTTGATGTAGAGTTGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGCT  
GTAGTGGCTTCGTCTTCGGTTTTTCTCTTCCTTCGCTAACGCCTCCCGGC  
TCTCGTCAGCCTCCCGC

>Sequence 676

TTTTTGTTTGTATCGAGCTCACCGCGGTGGCGGCCGCGAGAGCACAGAT  
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AGTGGACATGAAGGTAACGCATGTTGTCACTGC

>Sequence 677

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TAAATTTGCTTATAGTTTTCTTTCCCTCGGGCCAGATAACCCGGGA  
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CCCCGGGTCCCCACCTTTTTTTTGGATTTTCGGCGGGCCGTTTTAAAAA  
TAGGGGATCCCCCCCCCGGGAGGAGATTGATTAAATAAATTTTTTCCCC  
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TTC

>Sequence 678

Table 2

GAGAGTGAGTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGTGGCAGACG  
TCGATGATCGAGTTCAAGGCTGTCTCCAGCTCGGCCAACATGA

>Sequence 679

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GTGATCGGAACGTGTCTGATCCCCCTCTTCTCATCACTGCTGCTCCAAGTGG  
ATTTATTACTCCGGGAATGGTCTGAGGGGGGAAAACCAATGTGTTTAGCGT  
GCCTGCCCACCTGCGCCTGAGCACAATATCCTGCAATCTGACCTGCCCC  
TCCTGCACAGGAAACCACTTCCCCCTCCAATTGATGGTTCAAACACTGC  
CACCGCTGACTGCCCTGCATCTGTGGGTCTGTAGAACAGAAAGGCAGAAC  
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GTCATGCTCACAGAGAATAAAGATTTGTAGAAAAGGTGCTGAAGTCCAA  
GGAAGGCATTTCTGTGCCGTGTCTGGAACCGTGTATCCTTACTACATCA  
CTGAACGACACCAAGCACCCCATGCACTTCTGGGGCCAACCTTGGCCCCCT  
GGAGAAAGACACCTGAATTTGGCATGCAGTCTACTTCN

>Sequence 680

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GTTTCTTTGAGATGTGGGGCCACTTCCATTCCCACCGGCACAGGTAGGC  
ACGGGCATACACCGACACTAGTGGGTCTCCGATCCCTCTGATCATGCATG  
TCAACCGGGGACAGGCACTCTGAAATTTCCCGTTTTGGAGAGGAATTTGTTA  
CATTTACAGGATGGATGCCTCCACGTAATAATCTTGAATGAGTTCCCTGAT  
GGAGGCAATCTTGAAAAACCAATTTAGGCATGTTTCTTGGCCGTGTCTAT  
TTGCATTTCTGGAGAAAAGTGATCTGTGAAGACGCTGCGGCTATCCACA  
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>Sequence 681

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GGTACCCCTAATGTAGTAGTAAATTTAAGGCCTGTGAGGAAATTTTAACA  
CTTCCAACAGGTGACTATATCAGGAAGGAGAAAACCAAGTCTTCTGCT  
TCACCTTCTGCTGCTTTTGGGACTTTTTATGAGCTAGTTAGCTAAGGACA  
AGACCCTGAACCCATTTTTTCACTGGGAGAGGAAAACCAAGGCTTCTC  
AGCTTTGGCTTGGCAACTCTGGAGTTTCTATGGCTTCCATCAGGGCTCCA  
GGACCCTGATAAGTGGCCTCAGGCAGGAGGAGATCGGGAGCGGATGGGAG  
AGCTAGTCAGGAAGGTGGAATAGGGACCATCCCCAAACAGTTGGCGTAT  
GATGATTTGAGGAAGTGGACGTAGTTCTGCATGCTGCGGTTGGAGCTTTC  
GGACTGCTCCAGGCGATCTTTCAGGTCTTGCAACCGGCTTTGGTAGCGGC  
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>Sequence 682

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ATGTTGTATTTCGGCTGGGTGAGGGTCTCAGGCAGAGTGCGCAGGCTCGA  
CGGCTTATACTTTGGGAACGACA

>Sequence 683

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CATGCAGCGCAAGTAGGTCTACAAGACGCTACTTCCCCTATCATAGAAGA  
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TCCTAGTCCTGTATGCCCTTTTCTAACAACACTCACAACAACTAACTAAT  
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CGGCATTATTCTAGTCTAAAGGGCCTCCCATCCCTACCATCTTTTAAA  
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CCAAAGTTTTTTGGCCCCCTCCGGGGCCCTCGGGCTTTTATAAAAAAGGG  
GGACCCCCCGCGGTGTGGAGAGAATATTATAAAAGTTTTTTTTTCCCCCCC  
CCCCCGGGGGGGGGCGCCCCCCCCCATTTTTTTTTTTTTTATGGGG  
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Table 2

## &gt;Sequence 684

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CACTCCATTGATACCTCTGATTCTGATGACAAACGCCAATTTGGGTTCTG  
CAGGTACGAGGACATTTTCCCCCGCGGCTTGTGGGGTCTCCTTTACCCA  
TGTTGACAGATCCGCGTCCACCCGAGGGTATTGGAGGGTATTCTTGCCTG  
GTGCGAGCTTTTCCTCAGAGTCCCGCAGA

## &gt;Sequence 685

GAAGTGACAGGGTGCGGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
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GCGATCCAGCTCACTACAACCTCCGCTCCAGGTTCAAGCAATTCTCC  
TGCCTCAGCTTCCTGAGTAGCTGGGATTACAGGCATAAGCAACCATGCCC  
AGCTAATTTGGATTTTTAGTAAGATGGGGTTTTTCCATTTTGGCAGGCGG  
GTTTTGACCCCCCACCTAAGGGGGGACCCCCCTCTGGGTCCCAAAAAGGG  
GGGTAAATAAGGGGGGGGATTCAATCCCCCGGTAAAAAAAAGAACCC  
CCCCCCCCGGGGTGGTAAATTTTTAATATGTTTTTCCCTCCCCCGGG  
GGGGGGGCGCCCCCCCCCTTTATTTTTTTGGGGAGGGGCCCTCCCC  
CCTTAAAAAAAACCATTTCTTTGTGGGGTGATTATTAACACCCCAA  
ACCCAGCGGGGGG

## &gt;Sequence 686

GTACGACGATTGAGCTACCGCGGTGGCGGCCGCCGGGCAGGTACTTTT  
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TTTTTTTTTTTTTTTTTTTTTAAAAACAGGAATCTTCAGACTTTATT  
AAAAAAGGCCCTAAGGGGCTCTTATTAAGGATAAAAAACCCATA  
AATTCGGGGCCCTGGGCTGGGCAGGGTTGATATCCCTTAAAGGGGAGGA  
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ACATTGTTCTCGGGTTTGGGTTCAAAGATGGAGCGGGGGGGATATGGG  
GGAAAGGGGCCACGGGTTCTACGCAACAACGGGGGAAGGCCGGCGACA  
GTTTTTCCCAAAATTCTGGGGGAAGGGGGTCCCT

## &gt;Sequence 687

TGTTGATATCGACTCCCGCGGCGGGACGCGGGGCTTTACATGGCAACAAG  
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GGAAAGAACAGACCCGGAATGCCAGGGCCGAGGTGTTGCGCCAGGCTAAA  
GCCAATTTTGAAGAAAGAAAGGCGTAAAGAACTTAAGCGACTTCGGGG  
TGAGGATACATGGATGCTACCTGATGTGAATGAGAGAATTGAACAGTTCT  
CACAGGAACACTTTGTGAAGAAAAAGAAAAAAGACAAGCTTCTATT  
AAAGAAGGGGAAGATTAATCAGTACCTGCCCGGAGT

## &gt;Sequence 688

GACGCGTGAGCTACCGCGGTGGCGGCCGAGGTACACTCGCCAGCGGTTT  
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GCGGCCACCTCCTGCTGCGTTCCGGTTTCCA

## &gt;Sequence 689

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AGCTCTCGTGCTACTCGCTTGGTGATCCGTCCACATCAGGCCAATCAG  
GAACAATATACAGATGCTCCCACTGATCACAGAGAGAATGTAGTTCTTAG  
ATGGAGACGTCATTACTTGCAATGGCAAGATCAGAGAAGCCATCTGCTGGG  
GCCACCTAGAATGACACAAGGCAATGTGATTCTCTGAGAGAGCACTGGGC  
TGGTGGCAGTGCTAGGTCTAAGTTATCCCTCTCAGTTCTTAGTTTCTT  
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GAGCTACAACCTCTTTTCTGGTCATAAACTATACACACGTCTACTGCA  
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## &gt;Sequence 690

TGTTGACTGTGACTCCACCGCGGTGGCGGCCGAGTTTGATTTCTTGCAGT

Table 2

CCTGAGCGATGGAGCCCCGGGGTGCCTGGTTATTGTCCGCTTTCTCTCTC  
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ATCGATTGGATCCAGTCCTTGTTCAGAAAAATTGT

>Sequence 691  
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GAGGAAACGGGAATTTTCATCCATGTCCTGTGTATCTGCTGGCAACAGGTC  
AGAACGGCCAGTATGTTATTCCTGCAGGCTGCCTAGGGTGTCTCTCTCA  
AACAGATCACCTGAGCCTCCTGCATCTATGAAGTTATGACACAGCAACCA  
GTTACTCAGAGTCTGATGAGAAAAACAGATTTTAGGTTTGGGAAATGGGA  
TTACTGTAAATTTACACATCCAAATGCAAACTGGAGCTCTGATTGAATTCT  
ACCTGGGGAGAACTTGATGCTAACCCACAGGTACCTGCCCCG

>Sequence 692  
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AGAATTTTTTGATGACCCAAAAAACTGGGGGCAAGAAAAAGTAAATCTG  
GAGCAGCATGGACCTGTGCACTAAGGAACAAAAGTAATGAAGATTTA  
CACAACTTTGGTATGTCTTACTGAAAGAAAGAAACATGCTTCTAACCT  
AGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGT  
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AAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCAAGAAAGAGCTAGAC  
CTGGTGTCTGAAGAAGAGACATTTTGAAGAATAATTGGGCACAGGTTT  
AAGCAGGGGGTTATACCTGGGCACCCTAATAAAAGATACAATTGGAAAC  
CGATCTTTGCCTTGCTTATGGGACCCATTTCTTAACTG

>Sequence 693  
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CCCTTTGATGTGAATATCCTCGACCCCTCCCTTGTATGACGCGCGGTAA  
TCTATATTAGTGCCGTTTATTACCTTCTCTCCCTAGTTAAACCTAACCC  
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TTTTCTCTCAAAGGCCTGTAATTTACCGTTGTTTCCCACTGAAACCA  
CGGGTGCG

>Sequence 694  
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GACAACAGGATATTCTTGGGGGTTTGTGTTGTTTGTGTTGGCATTTTTT  
CTGTGCCTGTTGGTGATTCCAGCACAGACCAGAGTGCCGCGTACCTGCCC  
G

>Sequence 695  
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GCAGTTTAGGAGATTGTAAAGGGAGGTTTGTGAAGTTCTAAAAGGTTCT  
AGTTTGAAGGTCGGCCTTGTAGATTAACGAAGGTTACCTAAATAGAAT  
CTAAGTGGCATTAAACAGTAAAGTTGTAGAGAATAGTTGAAAAAAA  
AAAAAAAAAAAAAAAAAAGTACCT

>Sequence 696  
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GCAGGAGCTTAAAGGGAATTTGGGCCATATTAACCACTTAGGTCATGATA  
AATGATTACATTTTGGACATTTTGGTGTCTTAATGTCAGCAAGGGTTGC  
ACGATAAGTTTTGACATGCATGCATGGGAGACATGTAGAAATCTAGTTA  
CTTACAAGTTTTGGGGAAGAAGCCTGGACCCAGATGCCAGCTTTAAATA  
ACAGGGGAGTCTAATTACTTCTAAATTCCTCACATAGGGAGTTTTGCCTC  
TGGATGGCCTGCTTGATGGTCACTAGGGTGATCTTTTGCCCCCTTTATTC  
TTAAAGCCTCTTGCTCTGGAAGGGGTTTGGGCTTTAAAAAATTTGT  
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Table 2

AAAAAATTTTTTCTCTCCCCGTAAAAAAATA

&gt;Sequence 697

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&gt;Sequence 698

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&gt;Sequence 700

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&gt;Sequence 701

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&gt;Sequence 702

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&gt;Sequence 703

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Table 2

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>Sequence 704

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>Sequence 705

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>Sequence 1082

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ACC

>Sequence 1083

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>Sequence 1084

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>Sequence 1085

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Table 2

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Table 2

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>Sequence 1100

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>Sequence 1102

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Table 2

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Table 2

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>Sequence 1108

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GTATGCAATGCCTATTTTAGAAAAAAGGTGTCTTGATGAAAATGATTTTG  
AAAAATAGTCACTGACACACATTATATACAAAACCTTTTATATAAAAAATT  
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AACTGAATCATAAATAGGTCTACTAACGAAATCATGGTTAAGGCAGTATT  
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GTCAAATATACAGATGCAATCTGACATGCCTTATCGTTATTACCTGAACT  
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>Sequence 1109

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CTCAAAAACAGAAATACCTATATTTTCTCGCTAAATCCAATTGTTACCTA  
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AAGGCCCTTCAGATTTGAGGCACAAAAAAGGGCAAAAAAGAAAAA  
AAGAAAAAAACCTTCTACACATTTCTTCTTTTATCTGCAATATGAGA  
AGGAATCCTTTCTAACTCTAATAACATATTAACAAGAATTAAGAACACGA  
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CTGGGTGCAGTGGCTCAGGCCTATAATCCCAACACTTTGTGAGGCCGAGG  
CAGGAGGATGCTTAAGCCCAGGAGTTTGGGATCAGACTGGACAACAAAG  
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TCCCTTGAGTCCAAGAATTTGAGAATGGCGTGAGCTATGATCAAACTTCA  
ATTCAGCCCGGGGTGAACGAAGCCAGGGGTTTTTAAAAAAGG  
GAAAAANNAAAAAAGGGGGAGGTTCCCCTTGGGCCCCGGGGCCCGGGG  
GCCCGGGGTTTTTTCGAAAAGAGGGGGGGCCGCGGAAAAATTTTTTCC  
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>Sequence 1110

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TCTCTAGAGCAGGGGCAGAATGCTCCAGTCTCTTTGCTAAAGCATAGCA  
AAAATCACCTTTGCTGCTCCAGTTCCCAATAAGTTCCTCATCTGTGTTGG  
AGACCACCTCAACCTGGACTTCATTGTCCATATCAAGATCGGCATTTTGG  
TCAAAGCCATTACGAAGTCTCTAGGAAGTTGCAAACCTTTCCACATTTT  
CCTGTCTTCTCTGCACCTCCAAACTATTTCAACCTCTCCCTGTTACCT  
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Table 2

CTCTACCGGT

&gt;Sequence 1111

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TCAGCCTCCCAAAGTGCTAGAATTACAGGCGTCAGCCACCACTCCCAGCC  
TGTAGCCTATTTTTATAAATGAAGTTTTATTGGAACATAGCCATGCCTGG  
TCATTTACATACGTCTATGGCTTCGTATGCAATATAGCAACAGAATATAT  
TAAACATTTACTACCTGGCCCTTTGCAGAAAATGTTTGACAGCTCCTGCT  
GTATAAACATAAAATCTGCCAAAAAATGCTGATATTACCCACATGGAGA  
AACACTGAACCCCTCTTCAGAAATCAGATGCCAATTTAAATATTACTATC  
AGAGAAATACACTCTGATTTTTTTTTTCTATTCCCTTCTTTTTATTTCT  
TTTTTGAGACAAGGTCTTGCTCCGTTGCCCAAGCTGGAATATGATGGTGC  
CATCATAGCTCACTATAACCTCCGAATCCTGGGCTCAAGTGATCCTCTTG  
CCTCAACCTNCTGAGTAGCTTGACTATGGGCGTGTGCCGCCGACCCTGG  
CTAATTTTTTGGGATTTTTAAAAAAGCGGGGGTTTTCCCCACCGTT  
TTGGGTCCAAAACTTGTTGCTCTTTGGAAAAACCTTCTTTTGTAACC  
CCTTTCCGGTGGGAAATACCCTTGGGGGGCCCCCAAACCCCTTTTTT

&gt;Sequence 1112

CCGCCGCTCGAAAGCCCTATACTTAGCGTTTTTAACCTATATNTCTGTGC  
TTNNNNNNNCTNNNGGNAAGTGGGGGAATGAGGAGTGGGGGGGAGTGC  
TACGCGCATGTGTCTCAATTCCCCTTACGGCCCCGGCAGACCTTGGC  
TTGACTGTGGTCTANAGCACAAAGAATATGCTAGGCTGCACTCTGCTAATC  
AGATGTGTGAATGGTCTGTGGNGTGTATTGAATGGGAAGCTTTTGGCCG  
GNGAACCAAAGCTCTCATGGATGATGTGGTGAAAGCCACTTCTAGGGGCT  
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&gt;Sequence 1113

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CACCTCCTGGGTCAAGCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGG  
GATTACAGGCAGGCACCAACCAACCCGGCTAATTTTGATTTTTAGTAGA  
AACGGGGTTTCTCCATGTTGGTCACTCTGGTTTCGAACCTCCAGCGTCAG  
GTCACTCGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGC  
CACCGCGCCAGCCACTTCTGTATTTTTAAAAAAGTGGTAAGATTTGAGT  
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TATTGAAAACAAGGACCTTTTAAGAAATGGTTTTGTAGGTGGAAAAGT  
GAGTTTTAATTCGTCATTTAATTAGCCAGGATGTTGATTTTTTTTGGTGA  
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&gt;Sequence 1114

GGTACCACATTGACCCAAGGACCTCTAGCTGTGTTTGGTGAGGCAGGTCT  
TTGTCAATTTAAGTAATCCTGTCAGATGGTGTACCAATCTTGTAACCTAC  
GACAAAGCACTGTTGCTGAGATACTGTGATTTATTTTCTTAATGGGCAG  
TTTTTTTATATATACGTTCCATTTTCAGACAGGTGGTGCTTTGAGTTG  
AATTTGCAAGTTCAGTGAAACATGGATCTCTTTTTTATTTAACTCCCTT  
TCTTCTCCTAAGGTGCTTAATTTCCATGCTTGACATCGT

&gt;Sequence 1115

TGTACAGAAGGGTTTCACCATGTTACCCACACTGGTCTCAAACCTCCTGGT  
CTCAAGTGATCCATCTGCCTCAGCCTCCCAAAGCACTAGGATTACAGACT  
TGAGCCACCGCACCTGTCCCATCACTTTATATTTTCAAGAAGGTGGTGA  
GGGTGTGTTGGTGCCTGNGGTCCTAGCTGAAGAAAAGGGAAATTTTTCT  
ATCTCTGGTAATGTCTTTA

&gt;Sequence 1116

TGTACCATCCCATGGACACAAGTTTCCAGGCAGCAGCCTCCAAGAATTTT  
GTTAGAGATGTCCCATCACTTATGGCCCTACACTGTTTACATCTGGACTC  
TGGATTGCAAGTGTAAGGAAGAAAGTGAAAAAGAGAGAAAGTGGAACA  
AATATTGGCAACAGAGCCCCCAGAGGACAGTTGTCCCTTTTCCAACAAGT  
TAAGTGAAAAATGCTGTTGCCATGGGAGT

Table 2

## &gt;Sequence 1117

AAAAAAAACAATATTTTTTAAAGCGTGAAAAAAAAAAAAAGAAGGGGGGG  
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TTTTAAAAACAAAAAAAAAAGAGCGCCTTTTTAAAAAAAAAAAAAAAAAAAA  
GCCCCCGGGGGCGCGCCAAAAAACCCCTTTTTAAAAAGGGTTAAAAA  
AACACCCCCCTCCCAAATTTAAAAAGGGGGCCCGGAAAAAAAAGGA  
AAAGGGGGTGGCAAAAAAAAAAATCCCCCCCCCAATTAAAAACACAAA  
TTGGGGGGAAAAAAAACCGGGTTAAAAAAAAGGGGGAAANTTC  
CAAAAGTAAAGAGGGGAAAAAAAAGGGTGTTTTTGGGGGAAAAAAA  
AAGAGGCCCCCAAAAAATTTGTAAAAACAAAAAGGGCAACTTCAAGGG  
GTGAAAAAAAATTTTCTTATTTGGAAGAAAGAAAAAAAAGGGGGG  
GGGGGGGAAATTTTTTCTTATTTGGAAGAAAGAAAAAAAAGGGGGG  
GGGCCCCCGGGAGTTTTTTTTAAAAAAAATTTGGGGGGGGGGG  
GGGTTTTTTTTTTTTTCCCCCCCCCCCCCCCCCAACAATAAAAAGAGAG

## &gt;Sequence 1118

TGTACTTTTTTTTTTTTTTTTTTTTAAAGAAAAAGTTGGCCAG  
CCCCAGGGAATAAATTTTGACTGCTCTAAACAACCACAGACCAAGGGCCA  
AATCGGCCCTCTGACTGTATAAATTAAGTTTTACTGGAATAAAACAGG  
TCCATTGATTTATCCATTGTCTACATACGCTTTTAGGCTACGATGGCACC  
ACTGTGTCACTACAAAAGAGGTTATCTAGACAAAAAGCCTAAAATATTAC  
CGTTTGCCTCTTATGGAAGAAAGTTGCCATTCCCTAGTCTAAGGTTAG  
ATTCTGAGCTTATCATGTTATCTACCCCCCCCCCGCT

## &gt;Sequence 1119

ACAATATGGAAGGTAAGATCCATACCCAAAGTTAGGTAAGTGTGAGT  
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TAGGGAATGATGCAAGTGGCATTGAGCTATTCATTTAGAGAAAGTTTA  
GAAACATGCAGTCTANNAGGAAGAGATAGAGGCAATAGGAAAAATATAC  
TTAAGATTAAACAGCTGTTTATCCCCGACTTGCTTAACTTCNGATGTNGTG  
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TGTGTTGCNAGTGATTAATCATAAGCTTATCTTCATGAAAAGTATATAT  
TTCTTTCACACTACNCTAAGACAGTATTATACATTTTGCTTTTTTATCTG  
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ANTGAACTAGAACTCTATATTTAGGGAGTTAGCAAAAAAAAAAAAAAAT  
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GGTCTTTTTTGATGCAACCTGGGTCCCAACCAATGGGTGGGAAGCAAA  
GGGGTCGGTTAAACTTGGCTTTCCTTGGGCTGGAAAAAAAATTTTT  
TCCCGTTTCCCGGCTTTATTTTTTATTTTTTCCCCCACCAAAAAAAT  
TTTTTCCTTTTAAACCCCCCCCCGGGTGGGAAACAGAGGGGT

## &gt;Sequence 1120

GGTACACACATCTTTTTGAGATCCTACCTTCAGTTCTTTTGAGTATATAG  
CCAGAAGTGGTATTACTAAATCTTACGATATTTCTATTTTAATTTATTG  
AGGAACCACTGTAGTTTTTCATAGCAGCTGCACCATTTTACGTTCTCACC  
AAGAGTGCAAGGGTTCCGAGGTTCCACATCCTCCCCAACACTTGTTA  
TTTTCTGCTTTTTTTAGATTGCAGCCATCATAGTGGGTGTGAGGTGACAT  
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TCTTTTCATATGCTTACTGGTCATTTGTATGTTGTCTTTGGAAAAATGTC  
TATTCAAGTCCTTTGACTATTTTAAAAATTTGGGTATTAGAGTTATCGTT  
GGTGGTGACTTGTAGGAGTTTCTTCTATATTCTGGATATTAATCCCCTA  
TTAGATATATGATTTGCAAAATCTTCTTATTCTTAAGGTACTTTTT  
CCTTTTGGTGAATGGGGTCTCTGATGGATAGAAGTTTTTGGTTTTGAAAT  
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TTCAAGAAATCCTTGCCACAACCACGTAATAAGGTACCTGCCGGCCGGC  
GCTTCAAAGGCGAATTCAGACACTTGGGCCCCGTTTTTTGAATCCAGC  
TCGGTCCAAACATGGCGATATAATGGGATAACATGGTACAGTGTTAAATC

## &gt;Sequence 1121



Table 2

CCCTTAGCGTGGTCGCTTTTCGAGGTACTTTNTTTTTTTTTTTTTTTT  
TATTTAGTAGAGACGGGGTTTCACCGTGGTAGCCAGGATGGTCTTGATCT  
CCTGACCTCGTGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACA  
GGCGTGAGCCACCGTGCCGGGCTGAAAAATAACCCTTTAGATATCTACAG  
CTTTAAACTGTGTGCAGTCATGAAAAGCAGACATTAGAAGTCATTGGCAT  
TTAATAAAATTGCAGTAAAAATTATACAGTAAATACATTACAATCATTAA  
ATAGGCTTTAATGAGAAGAATTTAATAAATAATCATTAAAAAGACAGCAG  
AATTTTATTCTGTTCTCAATATGTTGCTGCTCTTCTATCAAATACTATA  
ATAAACTATATGACTATTATATAGATTTTCAGGAGCTAAAAAAGCCTTA  
TATTTTCAAATTAAGAACAATATTAATTTTGCAAAATACAATGAGCATT  
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ACCGGCCTTAAAAAGAATAGAAATCTTAATGATTTCTTTCTGGCTACAGTG  
AGCTTAAAAATACCACCCCAAAATTTAATAAATATGTAGCACTTCAAGAA  
ATTTTTTAACAACCTTCATAATGTGAAATTGAGCCATTTATTTAGAAGTTT  
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TCCTTATCCGACACGGAT

>Sequence 1122

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TTTAAAGAAGGAAGCTTATCTAACACGTGGAATGAAAAGTACC

>Sequence 1123

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GCCCTCGATCCTATTTTTCCCTGACTCCATGCTTGGTTGGCCCTTATAAA  
ACTTGTGCCCAAAAGATTGTGGATTAGACTTTCCGAGGACTTACCTGTCC  
TAGGGGAGTAGGCAAGCACTTCCACTAGGGAGGGGGTGGGGGAAAGGAAT  
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CCTCCATAACAAGTTAGAAGGATGTATCTGCTACCATTTATTCCTATAAT  
TTTTAAAAGTTGGGGCTTGACATTATACTCATTTAGTGAGAGTAGATGCA  
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GAGCCCAAGCTTATCTTAACCATGTATGGTACCTCGGCCGGAACCCCC  
TAAGGG

>Sequence 1124

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AGTAACCAACAGCACAGCCACCAAGAAA

>Sequence 1125

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CTAATTTAATTCAGTGCTTTCTGCTTATTCTGTTTCTAGTAACTCTTACA  
GAAACAAGTGTAGTCAGTAGCCAACATACATCCATGTCAGCCTATATATG  
ACTTACTAGGAGGGCTTAGTTTTTAAAAAGAGATGAAAAATAAGAGAAG  
GTCTAGTATTTTCTCCACATTTCCAACAGATCATTTTATGTGCCCCCTT  
TGGGTGAGCACATTCCATGTTGTAGACCATTGATCATAGTAGTCAGAGCA  
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>Sequence 1126

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ACTGGACACATCCACTAATTGTTATGACAATCAAAGAAGTCATCTCCGTA  
AATACCTAAGGGTTGTCTAAGGCTATAAAGGTCAATTTGAAAGCCAGTTA  
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AGAAGTGATATGCCTACTAAAGCTGTTATTTGAGACTATCCCGGTACC

Table 2

## &gt;Sequence 1127

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TTTTGGCCTCCAATTCATTTTAATTTTGTTCCTTTGTTTGTCTTTCCTC  
AAATATACAGTCCATCACCTTGGCTCAGTGCATGTCACCAAAAAATCTCC  
AGGGATTTTCATAGTCTCGGTGGTGTGGCTGGCCAGGACTATCCATGCAG  
GGAGGCCTGCACCTCTGACAGTCGGCTGCAGCTGGGGGTGCCCATCTTTT  
GTGCTCTGTGGTACTCTACACACATAAAATTCAGGAAATGACTAGATGAG  
CCTGAGTGGCTTTATCATTATTGTGCAAAATACAGTTTCTATACCCACAAA  
CCCAAATTAAATTATTATAGGGACTAATGGCTGTCAGGTGGGTGTGGGAG  
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TACCCTTGC GCGCTACCACTTAGGGCTATTTTCTGTCACTGCGGGT  
CCGTATCTTAGGGAATCCCACTTGGGTCCACATCATGGATGACACCTGG  
TAATTAAGTGGTTCCTCTCATAAAATAAAATTCGGTGTACATTCAACAC  
AAAATTACGTACCGTACTGCAAAATATTATATTCTTCGGCGTGCCACTCA  
GATGATCTTACACACATCTATTTGTACGCCTTATTGTTTCTTTACAATT  
ATACAACCTATTTCGGATAACTTCTCTAACTAATTTACACCCCTGCGTT  
AGGGCGCTTATCTATTCTCCATCATTTCTCAACCGTTT

## &gt;Sequence 1128

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GAATGTATTTGGTTATAGATATGTGAAGGAAAAGGCATAATTATATGGTC  
ATCCATGCTGGGGAATATTTTGTAGGTATGTTTTGTTGAGAGAAATCGAT  
CATATTGGATCAATAGAATTAGACAAATATCTTGAGCATCAAGAGACCTG  
GAAACATGGGAATGATAAAGAGAGAAAAACTGCAGTTTCGACGTTCTTGA  
GGCCACAAGAGAGATGGAGGAATGAGGGTCGTGTATAGGAAAGAGAAATA  
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AGCATGGGAGAGCCAATGGACAACATTTGAAAAATGAATCAAATTGATAA  
AGTACCTTCGGGCCGACCAACCTTAGGGCCAAT

## &gt;Sequence 1129

ACAGTGGCGCAATCTTGGCTAGTGTAAATTCAGTCTTTTGAATAAATGGAA  
AAAAATAAATTGTATGTTATTTTTATACAGAAAAAAGGCCTTAATATCAT  
AAGGTTTTTTTATAGCCCTCAAACTGATTTTTAAATGGAGGTAGGCAAC  
TGAGAAAAATAAGCATTTAAATTAGTTTTACCCCAAAGCCCCCAAATT  
TTGCTTACAAAATTAGGGTACC

## &gt;Sequence 1130

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## &gt;Sequence 1131

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CCAATCCTCAAAAGACCTCTCAATTAGAATTCTTAAATGACAATGTTTTT

Table 2

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NCGCGACACGCTTAGGG  
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TACCTTCAGCATTGGGGGTGACAAAGCAACATGAGATTTGGGCAGGGATA  
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CTAAGGG  
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CCCGTCA  
>Sequence 1134  
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TCCTTATCTATTCTAGTGCCAACCCCTCTCTTTAAAAAGTCNAGTAGTGT  
NNAATATAGTTGGCTCNTTTTTATTTANNAAAAAATTTTAAAGATTGGGAT  
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ATTACANNAATATATTTGTTAACCTACCCTAGCAAATATTTNTATGGGT  
ATAACTTTGCCTATTTNTAATATAAAATCCCTGGGTTTTTTAAAAATTCT  
TGAAAAATGGCTCCATTTTAAAGTAATAAGGGAGACAGGGGTGAAAATTGG  
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CTTGGGCCCCGGGACCACCGCTTAGGGGCGAAATCCACACACACTTGCC  
GGCGCGTTACTTAGTGATTCCCGAGCCTCGGTACCAAGCCTGGGCGTA  
AATAATGGGCAATAAGCTGGTTTCTGGGGAGAAATGGTTATCCCGCTC  
CCAATCCACCAACAACATACCAACCCGGAAGCCTTAAGATGTAAAGCCTC  
GGGGTGCCTCAAGGACGAGCCTAACCTCCCATTAATTGTGTTGCGCTTAC  
TTGCGCGTTTCCCAATTGAAAAACCTTTCTGGCCAACCTTGATATATGGA  
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CCTCCCTTCACTGACTCCCTTTCCCTGGCGTTTGGTGGTGGGAGGGGTAA  
AT

Table 2

## &gt;Sequence 1135

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CTTGGTCTCACTACCCACATCANCCTGGAATGGGTTACCAGGCCTCAAAG  
GACTGCCCCACGGGCTAAACAGCTGATCCGCTCTCTGAAGCCAGACAGTC  
TTATCTGGGAGGTCCCTTTACAGATGCCACTGTTGAAGGCCCGGAAGCTGA  
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CTTTGCTGTTTTGGGCCGGCATTGTGAATTGGGCCTGGAGTGTAAGGTC  
TTANAAAAGAAGGGATGGGTCCTTTAGGTAATGAAATAGGTGTTGATGGT  
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CCCAACTGGGTGGTATCTAAAATCGGCTTGGGCTTCACATTTATAAGGGA  
GAAGGGTCGGGCCAGGTACCTAAAGGGAAGGAGGGACCTTCTTCCTTAA  
GGGGGAGGTCCCTGGCCACTGGCAAAACGGGAGGGGGGACAACACCTGGT  
GAAATTACCACCCCCCGACGCCAAGTTGTACCGCGGGTCTCTCGGGT  
ACTCTGGCCGGGTGGTTCGTTTTTAATAGGGCTAAATTCCTTATCATTG  
CTATGCCGCTCACTATAATGGAATCCGATAATTCGTTACGGAGACCTTGG  
CTCAACCATAAGGACTAAGATTGTATTCCTGGTGTGCAACAGTGATTGCG  
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## &gt;Sequence 1136

ACAGATGAAGATGTGTTAAATATCTCAGCAGAGGAGTGTATTAGATAAAAT  
GGAATTATGATATATATGATATACAACTTTTTCTATTTAAAAATATATT  
AATGGATCAACTTTAAAAATTGTTAGTTGCCAGTGATCTTTTTTGGAAAAC  
AAAAATGGGGCATTGTTGATTTATTTATTTTCCGTCTCTAATTAGTTAC  
CTCAGTTTGATTGAAGCCAGTGAAGTTGTGCTTTTCTCTACTTCTACTT  
CCTCTCCCCGACCTTTTTTCTGCCAGTGTAGGTGTATTC

## &gt;Sequence 1137

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TGCTAATTTTTGTGTTTTTAGTAGAGATGGAGTTCACCATGTTGGCAAGA  
CTGGTCTTGAACCTCCTGACCTCAAGTGATCCATCCGCCTTGGCCTCTCAA  
AGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCCCTGTCAGGGTTT  
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AGAAATCTCTCTAGATATTGTCAAATGTCTCCTGAGGAGCAAAGTTGTCC  
TCCGTCGGGAACCGCTGATCTAGAGTAAAGAGCTGGAAATGGAATCACCA  
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GAGCCAAGGACAATATGACTGGATTTTACACCAAGGTGCGGGTTAAATC  
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## &gt;Sequence 1138

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TTAACTTTGTTTTTAAATGGCTGCATCAGAAAAAAATGTCTATTTTTTT  
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G

## &gt;Sequence 1139

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TCAAAAAGATTAAATTTTTAAGCACTAAGTTATAAAGGGTTTACACCCATG  
AATAAAAAGATTACCATCACTTACTATGAACCACCATTCATGAATCCAT  
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Table 2

ATTGATGTTACTTTCTTTGACACTATATTTTATATAGATATATTTAAAT  
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CCACACATTCTTCTCACCCACATTTAATTATAAATCAATGTTATACTGA  
TAAAAGGTTCTATACACACATTTAGAGATATATGTGTGCGTGGGTGTGTC  
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>Sequence 1140

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>Sequence 1141

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CATGTCTGGCTAATTTTTGTGTTTATAGTAGAGACGGGGATCCACCATGT  
TGGCCAGGCTGGTCTTGAACCTCCTGACCTAATATGATCCACCTGCCCTGA  
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CTTTTTTGTGTTGGACACCCCCCTGTACCAGCTTTTGTGACTTGTTCAA  
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>Sequence 1142

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>Sequence 1143

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Table 2

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>Sequence 1144

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TAAACAGGAATTTTATTTTGCTGAGTTGTTCTAAGCTAAAGATAAAAATC  
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>Sequence 1145

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TAAAAACGAAAAATAAAGTAAAAAAAAAAAAAAAAAAAAAGT

>Sequence 1146

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TTATGTCAGTATCTTCTTTACAAATCTAACCTTCCCTTTTCACGCTTTT  
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TAATAGTTAAGCATTTCAAAACATTTCAGTTTCGTTAATCAGAAGCTGCA  
GTGGGTTTGTGTTTATAGCCAGTTTGCTTTTAAATTTGGCCATGTGGGCTA  
TAAGTTCAACGTATTTGTGTTCTCTTTATTGTTACTCTCTCCAGAATATT  
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>Sequence 1147

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GTATAAGCATCCTAATAAAAGGAGAGGTTCAAAGACGCTCTCCAGAACCA  
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>Sequence 1148

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TATAAAAAATGACTTACAGCTTCAGCTTAATCAGTTGCTATAATGTGAAA  
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>Sequence 1149

Table 2

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GCCCCCT

>Sequence 1150

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>Sequence 1151

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CCCAAGTAGCTGGGACTACAGGCACCCACCAACACCTGGCTAATTTTT  
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TTTACAAGTCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCT  
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>Sequence 1152

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TTTAATGACTGCATTTTGGAGGTGGTCCCAGGAGAACAGATGTTGCCTTA  
TAATGGTGTTTTTCCATTTTTATCTTTGATTGGGCAAGGGGGTTGGAAGT  
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Table 2

AACACTGAGGATACAATAATGATCAAGACAGGTCTAATTTCTGTCCATA  
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>Sequence 1153

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>Sequence 1154

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>Sequence 1155

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ACTTGGCCTTACTTTGTAGCCTTCATCAGGGTTTGCTGAAGATGGCGGTA  
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>Sequence 1156

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ACCAATAGTATTAATGATGTGTATGTAGACACAGACAAAAGCAGCGGACG  
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TGTCTGTCCAATGGCATGTAAACCACACTGCGATATACAATTTACAATG  
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>Sequence 1157

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TCGAGCTGGCTGCATCACAAGCAGAGCTAGGTTGTATAGTGGCCTTTGTC  
TCAAGACACTCTCCAGGTGGGAGAGCCTTCCATCAGGGACATACTTTAGG  
TTGCAAAATTGACTGTTGTCTTTGAGGCAATCTCCTTGTGGGAGAGAGTT  
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Table 2

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>Sequence 1158

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>Sequence 1159

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ATTAATAATAATAAACATTGGTCAAAAATCATAAGCTGTATCAACTGT  
ATATAATAATTCAATTAATAATATCATGCATAAAATCTGGGTG

>Sequence 1160

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TATTATTTTATAACTACAGCTGACCCTGAACAACATAGGGGTAAAG  
GTGCAGATCCCCCGTGAGTAAAAAATCATAAACTTTAGA  
TTCCCAGAACTTGACTATTAATAGCCTACTGTTGACCGGAAGCCTTAC  
AAACAGTTAATACACATTTTGTATGTTGCATGTATTATATAATGTACCTG  
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>Sequence 1161

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CTGAATTAAGCAGAAAGCTTTCATGGCTTTTCTGGCTTCGGCTGCTCAGG  
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>Sequence 1162

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GTGGGCAAGGATGGCCAGGAGAAAGGCAGGCCAGATTCCAAATCTGG  
CTTGACCGTCTAAGAGGCTGAGTCTTAACCTCTCTGAGCCTTTGCTGTT  
CATCTGTAAAGTGGTCTCTGACAGCTGCCTCCTAGGGTTGTTTGAAG  
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>Sequence 1163

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>Sequence 1164

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GTCACCTAGGCTGGAGTGCAGGCAACAGGCCAAGACCCTG

>Sequence 1165

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GATATATTTCTGGACAATGTAGATGCTGATATCCTTGGATTTAGGTTATA  
CTGACTTTTATCTTTACCAAACCATATTAACATTTGCATTTTATAATTGG  
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>Sequence 1166

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CCGCACAAGTTGGCAGTAGGTATCCCCAACCTAATTTATCTTGGTAAATT  
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Table 2

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CGAACCTAGTGAATGGAAGTAAATCCAGGAATTCTACAGATAATTGGTCC  
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>Sequence 1167

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TTAAGGTTAGGAATAATTAAGTTTTGCTCCCATGTTTTATGTGTAACAA  
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ACTTTATACTTCTGTAAAAATAGATTTTCCATTACAAAACCTGTCAGAAAC  
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>Sequence 1168

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GAATGTGGAAAAAATACAGAATCTGTTGGGCGATTATGGTTGGGCCTTCT  
TCGTTTCTACACAGAGGAATTTGATTTTAAAGAACATGTTATTAGCATCA  
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ATCAAGGAAAAATGACAAATTTTATAATGAAGGCTTTTATCAATGGTAGAA  
GAGTATTTGGTATTCTGTCAAGGGAATTCCAAAGGACTACCCCTAAAAA  
TGGAATACTTTTTTATCCACAAGTGTTAACTGAAGGAGAGCTTGCCCCC  
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ACTTGTCTATGAAGAGAAAAAGTAGAACGCGGGGAAAAACAAGAAGACGCC  
CTTGAACAAAGAATACCTGGGACAAGGGAAAAAGAAGCCAGGAGGCCAAG  
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AAT

>Sequence 1169

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AATGACTAATCCATCTGATTAAACATAGACCTTTTAGAAATCAATAACCT  
TATTTACACAGATGACAACTGCTACTGTTCCAAGGCTCCTAATCATGGTT  
CAGTTCTCAGGGCCTCAAGTCTTTTCCATTCCATCGCAGAGTAGT

>Sequence 1170

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CACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAAT  
GCTTGGGAAATAGTCATAATTACCCACATATAGTAATTAATAGATGGTAA  
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Table 2

GGGAGGCCAGGACAGATCGCTTGAGGTCAGGAGTTCGAGACCAGCCCAGC  
CAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATTATGGTGACG  
CCTGCCTGTAATCCCAGCTACTCGGGAGGCTGAAGCAGGAGGATCGCTTG  
AACCCATGAAGTGGAGACTGCAGTGAGCCGATATCGCACCACAACGCTTC  
AGCCTGGTTCGACAGAGTGAGACTTCATTTCAAGAAAAAAATAAAATTAAG  
TTGTTCTCTTAAGAAAAAAAGTCCTTGGCCGGCGGCCGTTCAA  
AAG

>Sequence 1171

ACAGGAGGAATGTTTGGTTGGGAGAATCACAGCTTTACAAGGGTGTATTAT  
ATTTGATTTGTGTTTATATTTGAGGCAGGTATTGTAATATAAAGGAATCC  
ATTACCATGTCCTATAAATGACCTCTAGCCATTTTATGATTATGTTCTCT  
GTAAACTCTTCAAGACTTCAATGAGAAGTTTGTGTTATAAGAATTATCTT  
CTCATACCTTTCTTGTGAAGAGCGTATTTCTGTTTTCTATCAGTTCGAC  
ATGAAGTCCACATCACATGCTGTCTTTCTAGTTACATGATGTGCCTT

>Sequence 1172

GGTACCAACCTATTTTACAGATGGGAAAACCTGAGGCTCAGAGAGGTAA  
ATCACTTACACAAAGCCACACAATTTGAGTGGCAGAGCTGGAATGTGAA  
TCCAGGCAGTCTGACCTGCAGCTTATGTGCTTAACGATACTGCCTCTCA  
TGTGGGCAAAGGATGGCCACGAGAAAGGCAGGCCAGATTCCAAATCTG  
GCTTGACCGTCTAAGAGGCTGAGACTTAACCTCTCTGAGCCTTAGCTGTT  
TCATCTAGAAAGAGGACCTCCTGACAGCTGCCTACTATGGTTGTTATGAG  
GATAT

>Sequence 1173

ACGAAGACAGCATCCTTCAATCCCGCCAGCTCATGTGCATCTGAGGGTGG  
GGCTCTGTCTTCATGCTAGAAACCAAACTGCTCTCACAGCTTCCTGCTAA  
ATCACCACGGCTAACGGATAAGCAGAGACGGACTACCCGCGTACC

>Sequence 1174

GGTACAGATTGCATAATAATTTTAGATAAAATGTCAGGAACAGAATCACA  
TTCTTAAAAGGCGAATTTCTATAAACGTGTGTATATGTTGAACAGATGAG  
CAGCTCTGCAAAGATGTGTATAACTGCATTTGAAAAAGACAGTGAAAATT  
TTGGGTTACTGTAGATGTCCACAGTCTGGCTTGGAATTTAGTTCTGTGA  
CTAAAGGAGGCTTACAGTTGCTCCAATTTTGGTTCTGTGGGGTACCTGCC  
CGGGCAGCCGCTCAAGGG

>Sequence 1175

GGTACATGGTCACAACAGATGAGCAACTGATATCACTCACACATGCTATT  
AAGAACTGTCTGTGATAAATAACAGACAAGAAATTCAGGCATCAGAAAG  
CGGAGCCACAGGTAGAAGAGTTATGGACAGTCCAGAGCGTCCAGTTGTAA  
ATGCCAATGTCTCAGTGCCATTGATGTTTCAGAGAGGAAGTGGCTGAATTC  
CCACAGGAAGAGTTGCCCGTTAACTGTCTCAGGTGCCAGACCCTCCAGA  
TAACATGAATCTGGCCAAGAATTTTCCAGCACATATTTTGTAGCCAGCTG  
TGTTGTAAACACCACC

>Sequence 1176

ACCGCGGCCGTAAACATGTGTCACTGGGCAGGCGGTGCCTCTAATACTG  
GTGATGCTAGAGGTGATGTTTTTGGTAAACAGGCGGGGTAAAGATTTGCCG  
AGTTCCCCGCGTACCAATGACTGGTTCCATGATCCCCTAAGAGAACACAA  
CTTAGGAATGTGGATTCTAATGATAGCTTTATACTGCTTAGGCAAATTTA  
CTTCTGAGCCTTATGTGCCTTCAGTGGTGCAAGCAAATTTCTTTTACACT  
TTAGAGAGGTTGATTAACGAGTACC

>Sequence 1177

GGTACACTGAAGAATTAAGCTGTAATGAGGCAACACGCCTGCAACTTATT  
CTTTAATAGTTCAGAAATATTAACAATTGGGTAATTTGGGTGAAAGGTAT  
AAGGAGCTATAAATGTTATTTCTGCAACTTTTATGTAAATTTCAAGTTAT  
TTAAAAATGAAAAGTTAAAAAGTTTAAAAACATAACAGAATAGAACATAACC  
TATTAAATAAATCTGAGTCCAGGCATGACACAGTGGTTCATGCCTGTAAT  
TCCAGGGAGGGACTGGGAGGCCGAAGTGGGCAAATCACTTGAGGTCAGGA  
G

Table 2

## &gt;Sequence 1178

ACTAAATTGTTTTAGAAAGCAAACCTACAGGACTTAAAAAAGGTGATTTTT  
TTTTTTGGCTGCAAGTAGGCACTTATTGTAATTTTTATTCATGCTATGAA  
CTCATGATTTTCCCTTTATTCTCCTTTGATCCTACTTAAATAAAATTTATA  
GAGTATTGAATAATATAGAACCAAGATAAGAACCCTAAGAGACTTTAGAT  
GTTTATTTGTTTCATTAGCACTCTGAGTACC

## &gt;Sequence 1179

GGTACTTTNTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTAATAAAAAAACTGCCTCC  
TTTAATGGCAGGAATACAATTCCTTGGTTAAGAGACCCCGGAAAAAGGC  
AGGTGACTTTTTTGGAAAACAAATTTGGGAGTTTAAAAAGGGTGTAATAAT  
ATTCTTGC GGCGATTTTTTGTAATAATACAGTTTATGTTTTCTTTTTT  
GCGACACCCAATCTTTAACTCTTGAAACAGGTTTTTCCCTTTTTTTTT  
ACAAACCTGGTTAAAAAACCAATTTTTTTTT

## &gt;Sequence 1180

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCCCAGGGGATTTTAT  
TCCCTTTTAAAAAAGGTTTTTAACAGAGGGTTTTTTTAAAAATTTGGAC  
GGGGGGGGAAGTGGACAGGATAAGGGGGAAGAATTTTTTTTTTTTTTCCC  
CCAAAAAATGGTTTTTGGGGGCTGAAATTTAAAAAAAATTTTCAACCGG  
GATTTTGGCACGGGGGGGGGGGAAAAAAGGTTAAAAAAAACCCCTT  
AAAGGGACCGGCTTAAAAAGGGG

## &gt;Sequence 1181

ACTTAGGCTTTTATAAAAAATACAGCAGGGCAAGAGGACCAAGATGGAGGC  
AGTGATCAGGGAATCTCAATGAGGGTGAGACTGCGACAAAGACTTGAAAA  
AGGTGGAGAAGCAAGCCTTGTGGGTATTTAGGGTAGCAGTAGTCCAGGCA  
AGGGGAACAAGTGTGCAAGGCTCTAGGAGGCAATGTGTTGAAGTGTT  
TTAAGAACAGTAAGGAGGCTAGTATGGTTAGAACAGAATGAGCAAAGGGG  
CAAAGTGGTAGAAGGTGGGATCAAAGAGGTAATGAGGCCATTGTGGAGGC  
CCATATGGACTATTGNN

## &gt;Sequence 1182

GGTTCTAATGAAAGCCAGATAAAGGGATGGACGATCACAAGGTGAAGTCC  
CACAGTAGGCTATCTGCAAGCTGAGGAGCAGGAACCGCCAGTCAAACCTCA  
AAAGGATAAAAGGGNGGGAAGCCGACAGGGCAGCCTTCAGTCTGTGGCTG  
AAGGCCCTAGAGCCCCTGGCGAACCCTGGTGTAATCCAAGAGTCCAAA  
AGCTGAAGAAGTGGAGTCCAATGTTTGAGGGCAGGAAGCACCCAGCACG  
GGAGAAAGATGGCCGGAAGACTCAGCCAGTCTAGCATTTCCACATTCCCC  
CGCGTACCTGCCCCGGGCGGC

## &gt;Sequence 1183

ACTTTTCTTTTGTGTATTACTTTTCACTTAGCATAATGTCCTCCAGCTT  
CATCCATAGCAGCTTCATCCATAACTTCTGGGTGTAGCCATGGCAAGGGT  
AAACTGATATGGCACACTGGTGGGCATGTCTTCTGGAGAGGTGCTTCCAA  
CTCTCCCTGTTTTAGCTAGTCTCAATTTGTCTGATGTCTGAACCCAC  
TGCCAGAGTTGAGTCTTGCTGCTGAGTCATGTCCAGACTCCTACCTCAG  
AAGTATGAAGCATAACTGGTGTTACAAACACCATCTTCAGAACAGTGATT  
AACCTTACGCT

## &gt;Sequence 1184

ACGCGGGGGAAGCTCATTCTATAACCGAAGAGCAGTCTCAGAAAGCAAGA  
TTACTTTTGTGTTTTTAAAAAATGATTCTTTAATGTATTTTTCTAAACA  
TTCTGATTGGAAGTAGTGGATTCTTAAATGATTCCAAAGTCATCTGTAAT  
TCTTCTGTTTTGTTTTGTCTGTCTTTCTTCATTTTGGCTTTGGGTGG  
GGGGAGGGGCAGGTGACACANAGGATTTTTTTTTTTTTTTTAAATTTT  
GGAATCTTTTCCAATAACCAGCTAAAGATTTGCACTGAAATACAACCTGT  
ATGCCTTTTGCATT

## &gt;Sequence 1185

ACTCCTGTATTTGTTCTTATGAAATGACTATCTGCCTTCTCGTATCTAGT

Table 2

AAGATTGGCTGGCTCAACTTTCTTCTGTCAAATTATATGGTTATTTTTTA  
TATTACCACATCAGCATTATATTTAAAAGTGTTTTTAATAGTTGAATGTAT  
TTTGCCAACTACTAGTATAGACTCAAATTTGCTATTTAATTTTTTAAAATA  
CAATTTATTTTGTAATCCTTTAAAAAATATTTGGTTAGTTTTGGATTAG  
AAATGATTTATGTTAGCCATGTGTTGAAGATGAAATTGGCATCAGTGATG  
ACGGTGCTGATTG

>Sequence 1186

ACATATCCCTATCTACTATGTAAAGACAAAAAGGCAAATGAAATGATGTA  
ATACAATGAACTCCTCAGAAAATAAGCTCTGTAAAATCTCAGACTGCCTG  
TTTATCATATGCTAGAGTAACTTACATTCCTTTCTTGTTAGAGAAAAAT  
GATGGTAAAATCCATGCATTAATCAAAACTAAAAACATGAAAAGGCAAGC  
CAACTACAAGAGAAATACAGTTGGCCCTTGAACAACACAGATTTGAACTA  
CATGAGTCCGTGTACC

>Sequence 1187

ACTCTCAAATAACCTGTGAGTTGGGAAATTCCTCTCCTTTGAGGTCCCA  
AGATGGCGTGGGGTTCCCTGGGCCTGTCGGAAGTGGCATTCTTTACTAAC  
CACAGGTCAGGAACCCTGCACAGGAAGTGTGTAGACAAGGTATGAGGCCA  
GTTTTCCCAAGGAACTTTATTGGCTCCATAAGTCAAGTTTGAGTCCTTA  
AAGGAAAGCACACCAATCCCATCAAAGTCCTGGTAAAACAACTAGTTTCT  
CTAATTGTGTCTGTTGCAAAAGAAAACAGATTCTTATTGCACTTGTGCA  
AATG

>Sequence 1188

ACATATCTTACTTGATTATTTTATTTTCTATCCCACCAATCCACACCTTC  
ACTGGAAGTAAGTTCCATAGAGGCGGAGACTTTTGTCTATTTTGTTCAA  
TGAACATCCCAAGCACCTAGAACAGTTTCTGACACATAAGAAGTATTCAA  
TTATGTGCTGGCTGAATGTATGAATTAATAAGTTGAGATTTCGATCACTAG  
TTGAAGTATAAATATATATTTTTCAGAATAAATGCTACAGTAACTGAT  
TATGACAGCTAATTCTGTGTACC

>Sequence 1189

GGTACAATGGCATAGTTGAGTAGTCACCACAGGACCTAGCTGAAATCCTA  
AAATATTTATTATCCCTTTATAGGAAAAGTTTGTTAATTCCTACAATAGA  
CAACGAACTATCAGAATCTATCATACACAGCAATGGTGAACACCTATTCC  
AGTTGGGGTGTGTGTGTGTGTGTGTGTGTGTGTATGTGGTGGGTATAGT  
GTNNANTGTNTTNTTACTGTGACCATGTNNAAAAAATTAAAAACAATAA  
ATTAATGACTGTTTAAAGTGCTTAAACCATGCCTGGAACATAGCAAGGTC  
TGAATAAATGTTAGCT

>Sequence 1190

GGTACACCTGGTTTCACAGAAAACAAAGCAACTCTTAAACACCAGCTGGC  
AAAATGATAGGGCTTTTCTTTGAATTAGTCACCACAGGTGNGAAAGACA  
GAATGACTAATCCATCTGATTAAAGATAGACCTTGGAGAAATCAATGACC  
TTATTTACACAGATGACGACTGGTACTGGTCCAAGGCTACTAACGATGGA  
TACGTGAGCAAGGCCTGAAGACTTATGACAGAGGGAGGAGGAGGGATGCC  
TAGCCGGGCGTNCGGTGGGAAGGGCAAGAGGTAAGAGACCCGCGAGTGCG  
GGGGAGATGGG

>Sequence 1191

GGTACTTCTACCATCTTTTGTCTACTTTCTGACTTAACTGCCATCTGT  
GATACATGAGGACTTACCTAAAATGTCTGAGAAGTACTGACTTACGCTTGATT  
ACCAATGTTTTGGAGTTTATAAAGCTCAATTCTAACAGAACATGATGATG  
TATAAAAAATAATCTTAAAAAATAAAATATGATGGTATAGTAATAAAGTAA  
AAATAAATATGGT

>Sequence 1192

ACAAAAACAAATCTGAAATATCTTATTAACAAGAAAGTAAAAATGTTATC  
AAAACTACTGTCGTCTCATCAAAAAGATTCAGAAGCCAATTTAAAGAGT  
CTCACACTGGACACAAAAATAATTTGAGCTTCAAAATAAACTGCAAGGGA  
TTAAAAACACATAAAATTTGTGTTAAAAATCCACAAGTTCATAATGATACTAAA  
AAAAAAAATCTTGTGGTTTCTCTAGAGGCTACTAGAAAATCAGCTCA

Table 2

TTATTTCTGATATTGGTTTAAATAGAAGAAAGAAAACCAAGCATC

>Sequence 1193

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCATTCAAGAAAGATAAT  
TTTACACTTATTTCTTTGAAAGAGAAATTTCTATGGAATTTTCTTCTTAA  
TTAAATCCAAAATACATTCTCTCAACCCTATGCCCTCATACTAGTAACT  
TGATGGTTAGCGGGTAAGTAGGTAGTAGTAAAAGAACAGAAGGGGAAATT  
GGGGGAGCAGAAAAGGGAGAAAAAGAAGAAAAGGGAACCTTCTAGTTTCC  
TAATAAAAAAGCTAGAGAATTCCATTCTGAAAATTAAGATATT

>Sequence 1194

GGTACATATACATTATGTAATTAAGCGTGCATGTGTATGTATTAATA  
ATAATGGTATATAAAACAAATACAATATGTACAATAAACACCTAAACGCA  
GAGGCTGCTGTTATCCACAATAGTAATACCAATAGAATAAATGATGAGTA  
TGTATACACAGACAAAAGCACAGGACGTATTAATAGGCGGACCCACAAAA  
GCACAGCATAAGCCAACTAGTGTAGCGCACCGGTAGTGTGGTGGTGGCG  
GATCTAAGATGTGAACGATGAAAATAAGACAGCGCATCCCGGACGACCA  
CC

>Sequence 1195

GGTACATAGTGTGCGGAACTCAAATCGGCATTTAGATAGATCCAGGTGGT  
TTAAACGGCACGTTTTTTGCTTATAAAAAAGTGCAAAAAAGATGTGGTT  
TACAAGTTAAAGCTACCAAAACCTTTTTTGGCTGGAATTGCACCAGTTTT  
AAAGCCTTTTGACAGAACCAATTTTTGGTTTAAACTTTGTTTTCTTT  
AAAAGCTTACAGGGTTTGGCTTAATCTTCCTTCCCTTTTCAAAAAACG  
GGGGCCGAGGGTTGGCCCTTGGGGGAAGGGTAAAGGGTA

>Sequence 1196

GGTACTAAAGGGAAGTTGCTAGGAAATAGAGCATGTAATCTTATTGTAA  
TTATGGAAACCATGGCAACACAGTAAATATTATGTCTCTTAATTTGTCTT  
TCAGTGATTTTTTGGCATGAGTGTTATGGAAGAGTAAACAAAATTAACA  
CAGTGAACCTCTGAGTCATTGCTACCCGAGTTAGTCATTTCTTTTGAAG  
GTTGTCCANACAAACACTTTTTTTTTTTTTATTTCTCCCCCTGTTGTGT  
CGGGGCGGCAGAAAAAAAAAAAAATAAATGAAAGATAGGGATTATAGTT  
GTATTT

>Sequence 1197

ACAGGAAGTGTGTCNCGGAGGAATATATAGAAAAGTCTAGGCTTAATCTC  
AGAGGGAAGATTGGGTGTTGGAGTGGAAGCAAACATTTTTTACTGTAT  
ACACTGTACC

>Sequence 1198

GGTACATGGCCCGCTCCCCCGTCCATTCCAGTTTCTGCCCCTCTACTGGC  
CATGACGGTCATCACAGTGCCCTCCTCATTCCTAATTTTAAATACACTT  
GAGACCGCTGATTAATCTTGCACTANGAAAAACAGAACATAAAACAA  
GTAACAAAAACAAGACACTCACATACAATGNTTTTAATGCTTGAAAAGT

>Sequence 1199

GGTACCACATTCTGCTCAGAAAGTCTCACTTCCTTAAATTGTCTTTTT  
TCCCCCAGCGTGAAATGTATCCATTTATAACTGCCTATTGCCTGTCTAT  
TAGCATCCAAAAATGTGGAAGGCCTCCCAACCACCATNTCTGCTGTGTC  
TTAGGATGTGCAGNAAAAAATATAGACCTAACAGGTTATGTTATAGAATG  
GCTTTATTTACTTTGGTGACTGTTTATGAGTTTTAAATAAAGACTGAAC  
ATTTTCTCGAAAAAAAAAAAAAGAAGAAGAAAGTACCTGCTCGGGCCGG  
CCGCTCGAAAG

>Sequence 1200

GGTACTTACAAAAAGCAAGAGAGAACAGTGGTTAAGGACGCTGACTCTG  
GAGCCAGATTGTTTGGGTTCAAATCCTTGCTCTGTCTTACTGTGACGA  
TTTTAGGCAAAATAACCTAACCTCGCTGTGCCTCAGTTTCATCATCTATAA  
AATGGAATTTATAATAGAACCTACATCATGAGTTGGTGTGAAGATTAAAT  
ATATTTATATCCCGGCTGGGTGCGGTGGCTCAACCCTGTAATCCAGCAC  
TCTAGAAGGCCAAGACAGACAGATCACCTGAGGTGAGGATTCAAGACCA  
GG

Table 2

## &gt;Sequence 1201

ACGGAAGAGTAAGTGGGGAGGGATGGGAATGGTTCCTTGAGACAATCTTT  
TACTACAGTAGATGCTTCATGGATGGGAGAGTAGGGACTGGTGACTTATT  
TATAGCCTTCTCTTTTAAAAAAGGACCCATTCTCTCTTGAATGGTGTGG  
TGAAAATTAAGAAAAAAGAAAAAAGAAAAAAGTACC

## &gt;Sequence 1202

GGTGCTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATCAAAAAACATTTT  
TAAACTTTTTTTTGCCAAAACTTTCTTTGGAAATGCAAAAAATAAAAA  
GGTTCCTTTTCTGCCCTTAAGGAGCTAAAAATTTAAAAAACTTTTAA  
AAAAATAAAAAATACAATCCCTGCCCGGGCGGCCCTTAAAAAGGGCA

## &gt;Sequence 1203

ACTAGTCCATTCTCACACTGCTATGAAGAAATACCTGAGACTGAGTAATT  
TATAAGGGGAAGAGGTGTAATTGACTCACAGTTCTGCAGGGCTGGGGAGC  
CCTCAGGAACTTATAATCATGGCAGAAGGTGAAGCAAGCATGTCCTTCG  
CATGGCAATGGCAGGGAGAAGTACC

## &gt;Sequence 1204

GGTACTTTTTTCTACAAATGAGTAATTGAAGAATTTTGTTTAGCCAGAC  
CATTTAATTCTCATCAATTGCATAATATTTCTAGTTAAATCCGAAGTTCA  
TTCTATATTAAGTAACATTTTATTAGATCCATATCTAAATAGCAATTTT  
GTGAGATTTACTAAGAATTTTCTGGTATGTATGGTTTTGGTGTATTGG  
AATGTACCTGCCCGGGCGGCCGCTCAAGGG

## &gt;Sequence 1205

GGTACCAGAAGCTAATCCCCACCGGGTTGGTTTAAATAGGGACTAACTA  
CTTTGGAGGACATGGAAGATACCTCAAGTTTAAATGCTTATAAACCAAGG  
CTCAGCAATATTCTAGTTAATACTCTAGAGGAATGCTTGACAGTGCCCA  
AGAAGGTATTAAGAAGATGTTTATTAGGTGTTATTTGTATAGTGAAAT  
ACTGGAAGCACTGTAACGGTCCATTACAGAAGAACGGATAAAAACTATTG  
TGACTAATTTATATAACAGTATAGCATACGGCAGAGAAAT

## &gt;Sequence 1206

CCCTTAGCGGCCCGCCCGGGCAGGTACAAACAATTTTTTTTAACTAGCAGG  
GCATGGTGGTTTGTGCCTTTAGCCCTAGCTACTTGGGAGTCTGAGGCAGG  
AGCACTGCTTGAGCCCGAGTTTGAGAATACAGTAACTGTATCACACC  
ACTACACTCCAGCCTGGGTGAGAGAACAAAACCTGTCTGAGAAAAAAA  
AATTAACTGAGATGCATTTCCCCCTTTTACACTAAGAAACAGACCCCTT  
CTTTGTTTCTCACTGGCCGCCAAAGGGAATGCTGTATGAGCATTTAGGT  
GCAGATGCAGCTGCGATATCAGAAGACCCCG

## &gt;Sequence 1207

ACCTTGATCTCTAGCAACGAGGGAAAATAAGAAAGATCAAGATTATTGTG  
TCTAAAGAAAACCTGGGAATATATATACTTGACCCGCTTCACTTGCTTACA  
TTGTCTGTCTGATTCTTCCAGGCATTAATTAGAATTTGCAACTCCTAGCT  
GGGCACAGTGGCTCATGCCTGTAATTCCAGCACTTTGGGAGGCCGAGGCT  
GGTAGATTACTTGAGGTCAGGAGTTCAAGACAAGCCTGGCCAACATGGCA  
AAACCGCATCTCTACTAAAGGTACC

## &gt;Sequence 1208

GGTACCCATATTGCTAATGCTAGGATCAAGATACCACATAGCCAGAACAA  
GAAGTTGAAGGTAAACATAGAATATTTTATACAGGCACTCACACCTGCCA  
TTTCGGAAAAGGATTAGGAATCCAGATGCCGTGAATTTAACTATTCGTTA  
CAGGCTTGCTCTGCAATATGCTCTGGAGCAACTTGCTGCAGAGATTTCT  
GTATCCACGGACATTTAAATATCGCAAAGGCTATCTCCAGGCATGATGT  
TCCTTTGCTTGTCATCCCCGCGT

## &gt;Sequence 1209

ACGCGGGGGAGGTCTCCATTGAGTGGTGGCCCGGGATGAAGGCCGTTGTT  
GGGGCTAAACCACACTCTGGAATTCTGTGAGCAAAATTCCTCGCTGTGTGA  
ACTTGAGCAAGCCATTCACCTTTCTTAAGCCATTTTCTTGATATTTTACA  
GAGCCTACCAAGTATTCAACGAGAACATGTAAGTGAAATGCTTCACAAA

Table 2

ATGCCTGGTAAATAATAGATGCTTAGAAAATGGTAGAGAGAGAAAAGAGC  
AGTCTCTGCCCTTTAATGTACC

>Sequence 1210

GGTACATTGTGAGAACTCTGGAATTATTATTTTATTGATTATTACTAT  
ATTTTATCTGACTAGAAGCCATTTATTACCAAACCAATTTATTCTTAGA  
GTTGAAAACCGTCTGTGAGAAGCTTCTCTGGCCTGGATGGAGATCCAGCG  
CTTTTTTTTTTTTGGAGGCAGAGTCTTGTCTGTCGCCAGGCAGGAGTGC  
AGTGGCACGATCTCTGGTTACTGCAACCTCCACCTCTGGGTTCAAGCAA  
TTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGTC

>Sequence 1211

GGTACTCCTGCCAAGAGGGGCGACAAGTTCAAGCTGAGTAAGGGGGAAATG  
AAGGAACTTCCGCACAAGGGGCTGCCCAGCTTTGTGGGGCATTCCAGAGA  
ACCATGTGCTGTGAGGGCCTCCGAGTCCATCTGTTTAACTCTGTCAATTG  
GAGACTTGAGAAAACCAGAGCCCAGAAGGGGAAAAGTGATTGTCCAAGATC  
ACACAGCACTGGAGAAAGTGATGAGGAGGGGCTGAAGAAGCTGATGGGC  
AGCCTGGATGAGAACAGTGACCAGCAGGTGGACTTCC

>Sequence 1212

ACATACAGTTTACATTGTGGTAACAAAGTAGGACATGCTATGAAGGCCCT  
TTGAATTCGCTTGACAAGAATGACAGAGATCTACTAGACCCAATTTTAA  
ATAAATTGCTGGTTTTGCTCAACATGAATTAATAATATGGTGGCTAATG  
TGCAGATTTTACATTTGGAGAACTTTAATTTTCAGTATTAATTAGAATTT  
GTTTAATATTACAAATGCATTTAATGACACTTAAAATTGTACC

>Sequence 1213

GGTACCAATAAGCATACCTAGAGTTGAGATTTTGGTTTCTAAATGCCATT  
CTCCAATTAAGGAATCAAAGCACCTCAGATAAATGTTAATTCCAGG  
GCTGGGGCAGGGAAAGTGAAAGAGAATCACAGAACATCCTGTAATGACAG  
AAAAAAGTCACAATAAATGGTGGGATTATGTCAAAAGGACATGGGATTCA  
ACTTGAAAGATCTTCCAATAGCCAAATCTGAGAAAAGTTAAGCAACAAAA  
AAAATAACAAAATCTTATAATCTATAGAAAAAATATGAATGTATA

>Sequence 1214

CCCTTAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTT  
TAGAAATTGGCGGCAGTTTATTAGTCACAACCTGCTCACAGGGAGGGAGGT  
CACCACATGCCATGCGGGGTCACAGGAGAGTTGCATTTGGGAATAGAGTG  
AACCAGTAGGGGCTGTGGAAGGCAGGCTTTGCAGTAACAAGAGGAAGAGG  
CGATTCTGGCTCCTCCAGATGTGACAGGCTTGTGTAATAATTTTCCAG  
GCTGGAGGGAAGTGAGCCACGTTGAGACCCAAGGAGGGTACCTCGGCCGC  
GACCACGCTAG

>Sequence 1215

ACAATTAATTGTGTTCTGTGACCTGATGATTTTTTGAATAATTGCTTTT  
CTCTTTAAGAAATTTAAGTTTTCAAGGGCCGTATTAGTTATCTAAATATT  
TTGGGCTAATGTTGACTTATAAATAAATAAAAAATTTAGAAATATATTCAT  
GATGACAATTTTGTACTTACACTGCCTATTCTTTATTTCTTTTTTAGTT  
CAAAGGTGAAATTTTGACCTTTGTATTAACAAAGCCTCAAGAAAAGAGAA  
ATTCTGCCTTTTAAACATTGGTTTTCTTGCAATT

>Sequence 1216

GGTACATGGAGGAAGTGAGGTAAATCGAAACCGAGCTGGATTACTTCCG  
GTCTGAACCTCAGATCACGTAGGACTTTGATCGTTGAACAAACGAGCCTTT  
AATAGGCGGCTGCACCATCACGGATGTCCTGATCCGACATCCTGGCCTGT  
AACCCTATTGGGGATCTGGACTCTAGAATAGGATTGCGCTGATATCCCTA  
GGGTTACTTGTGCCGACGGGCAAGTATTGGATCAGATTGATATAGTAC  
TTGCGCTCTGACTGGTGGAGTCTTACCATGT

>Sequence 1217

GGTACCAGTGTGCTCTAGCCTTGGTGACAGAGCGAGACTGTCTTAAAAAA  
AAAAAAAAAAAAATAAAAAAGAATTTATTAATAATTTAAAAAATGAAAAAA  
AGCTGCATGCTTGGTTTTTGTGTTTATGTTATTCTACATTGTTGCCATTAT  
TACCAAATATTGGGGAAAAATACAACTTACAGACCAATCTCAGGAGTTAAA



Table 2

TGTTACTACGAAGGCAAATGAACTATGTGTAATGAACCTGGTAGGCATTA  
TTTATTGAATTATCATCATTCCATATGTCCAGCACATTTTAATAGGAAA  
GT

>Sequence 1218

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TAACTATTTAAATATCTGCGTGATCTTCTTAATTTGGGCTACTTCTAGA  
ACAAAACAGAGGTATTTACAACAAACCACTTGCCACAGGGCCTTTGAACC  
GTTTACCTAAGTCAAGTGAATGAAAAACATAACCAATGCACCATGGGG  
TTTATTGTTAGATAATAAAAGGCTTAAAAAGCCCCTAGACCCTAAAAATG  
CCTGGGATGGATGATTGATGCTCATATGCTACTTGAGCATGTA

>Sequence 1219

GGTACCTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTATTTGGGCCCTAA  
CATAATCCTGCTCAGAGCGACGGAAAAAAGGCAAGCCTTTTCAAACATAA  
CTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAAGAAAGCATCTAG  
ATAAATATCTAATAAAATTAACCTTTAAGAGAAATACTCTTTTCTTAA  
AGCCCTTATTTTTTAAGACACTAGAAAATAAGTTACTATAAAAAAGTGGTG  
GTCTGGGGGCTAAAAACAAAACAAAAAAATCCTCTTTTCTACATTTTT  
AGTTTTT

>Sequence 1220

GGTACAGAATTATCAACTGATTTGGTCAGTTGCTTCCAATGCTGGTTGAT  
TTCCCTCATTGTGTAAACATTGACAGGTATGTGACAAATGGGAAAAA  
TCCAAATAATAAAGTGACATATTGGTGTTTCAAAAAAAAAAAAAAAAAA  
AAAAAAGAAGTCTTTTTTTTTTTTTTTTTTTTTTTGTTACTTAATAAAAA  
ACTGAGTTTTATTTACATGTATTTGTTGGNTCCCCACCTTTTCCATGT  
TTGACCACCGCTACTACTTAGTCCTATCATAACATTCCATACATACTTAA  
AACC

>Sequence 1221

GGTACCTGAGCCAGGCCAATCAAAGTGTCTCTCAGGAATTAGGAATTTCA  
CACATAAACCTGGAGAGATAGCACATGCTCTTTCTTTCTTTGGACTG  
TGAGCTGTACCTGCCCGGGCGGCCGCTAAGGG

>Sequence 1222

ACTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTT  
TTTTTAACAAACCTGTTCTTGGGTGGGTGTGGGTATAATACTAAGTTGA  
GATGATATCATTTACGGGGGAAGGCCCTTTGTGAAGTAGGCCTTATTCT  
CTTGCTCTTTCGTACTGGGCTGGAATACCTAAACTACGTGTAAAATGTA  
AGTAGTGACCAATAGAAAATAAGGTTACCTTAACTTCCTTTTTCTGGG  
GGTTCTAGGACAAAAGTATAGGCATTGCCAAGGTCAAAGAATCAA

>Sequence 1223

ACACTGAACAATTTGTTAAGATAGATCTCACCTTGTTCTTACTGAAAA  
AAAAAAGAAAGAAAAATAGAACAGAAAAGCAATTGGATTTTAATTCTGGA  
AACTCCTTCTCTTCTTACATCCAGGAAATTTGCTGTTTATTTTGAAAA  
GCAAATTTAAACCTATTTAAGGGAGAGAGAGCTCTGTAAAAATTCATTT  
ATTAGTTCTGGACCAATGTTATTTATAAGCTATTATTTCAAATGATAAAA  
AATAAATGCATAATACATTTGATGATAGAACATTTTCTTTTTTA

>Sequence 1224

GGTACTTCTCAAGACCTCACTTTTATCTGTGAAATGTGGGGAAGGTTTAT  
AAGTAAATGAATGAGGGGTGAGGTTGTACCATAATGCGCCTTGAAGTAAT  
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CGTTTCTACTTGGATCCGAGACTCGAACTAAATCCTGGCGTTGTCATGGA  
CATAGCTTTTTTCCCGTGTGAAAGTGTTAATCCGATGACAATTCCACACT  
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Table 2

CAAGGGTTAAATATATAAATCTTTCCGTCCTTTAATGGAACATTGCTACG  
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TATAGTAACTCTCTTTAAATTGGTTTCTGCTGATGTTTCTAAAAATCTA  
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>Sequence 1225  
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CTGTATGATCATCATTTAATATTATTATCAATTTTGTATATTTAAGTTAG  
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>Sequence 1226  
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AGACACAAACAAAAGCAGCGGACGTATTAATATGCAAAACACACAAAAGCA  
CACAAAAGCAAAGCAAAAAGCACGCCAGTAATGTTGTGGATGCAGTTTCA  
AGATTTGACTTATAGAGATAAATCCAGTAGACACTGAAATAGATTTTGG

>Sequence 1227  
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TACAGTGTGAGGGGTGACACATTGCTGGATTCTGAGCTCAGGCAAATCTG  
TCTGTGTCTATATTAATAGAGGTCTATCTTTCTTAATACTGAATGCAAT  
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>Sequence 1228  
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ATAATGATTTCTTGATTGAAGGAATGAATGAATTAAGGTTTCATCTTTG  
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>Sequence 1229  
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>Sequence 1230  
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GGAGATTGTTGAAAGCGAAAACAGTGGGTATGGCAATACTGAAGTGGAA  
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>Sequence 1231  
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TTCCCTAAATTCACATCAGTTTGTAAAGTCAATGGATTAAATATTCAA  
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Table 2

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>Sequence 1232

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GGGTCCGCTTACTGGGCTTTTGGCCAGGGACTTAATTTTAAACTAAAA

>Sequence 1233

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TTCCCTAAATTCACATTCATTTGTAAAGACAATGGATTAAATTATTCAA  
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>Sequence 1234

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TTATTATGGTTCCTGCAATCAATTGAAACCTTTGGGGTTTTGTTCCCCC  
AAACATTTTATTTGTTAAATCCATAAAAAACCATTTTCTGGTTAAAAAAAT  
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ATGGAGANTTCAATAAACCTTTTCTTCCCAGGGAGACAAAAAGAAAGTAC  
CCCTATGTAAAGGATGGGGATATTTTGGCCTTTTGGGTCCGAAAAAAGGG  
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AACTTTAAG

>Sequence 1235

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AGGAAAAAATTGAGCATGTGTGGTGTGATTATATAATAGAATTGGTTTCT  
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ATT

>Sequence 1236

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>Sequence 1237

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AAACTTTTAAGAGCTACTTTGAAATAACAGAAGTCTTGATTAAATATTG  
CACAATAATGGCGTAGAAAAGTATGGTTTTAACTGGGACCCCTTATTTAT  
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TTTGTTAAAAAATTTTCATAGATATTACCAAGAAATATGGAAATTAAT  
AAAAAATTTGTATACTTCCCTTTCTCAATTATTAGATATTTATATGAAT  
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>Sequence 1238

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Table 2

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GTGTTTCACTATCTTAAATGAATATTTATTCTGGTGGGCCTCCCATTTCT  
CTTCTCCTGTAAAAAAATGACTGTTATTAACCTCAATCTCATGTGGATT  
TGGGTTTACTCACCTCAGATTGGGTAGAACATCTGTCTTCAAAGAAAAA  
CGAGTGACATTCTTTGCAAAATCCCCCTAAAGACCCCGTAGGACAAGTATA  
TGAAACATTTAATAAAAATCACTTCAGGCCCACTGCTACTTTGCACTGGG  
AATTAATTGTCATACTATTATGGCCCAAGTTGGGCTGACACTTGATTCT  
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CTAAAAAATTGCCACAAAACCACTTATTTCTTTAAACAAAAACTTTCCCT  
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>Sequence 1239

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>Sequence 1240

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GCTCTGTTGTTTTCACTTAGTATTACTTTAACTATTAGGGCTCTTTTTTG  
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>Sequence 1241

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GCTGGGCGTGGTGGGCGTGTGCCCCCTAATAATCCCAAGTTACTTTGGGA  
AAACTTGAGGCCAGGAAAAATTCGGCTTGAAACCCCGGTAGGGTGGGAG  
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GCGGTTAAATTCAATTGGG

>Sequence 1242

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GAAGCAGGAGAATCGCTTGAACCCGCGAGGTGGAGGTTGCAGTGAGTCAA  
GATTGCACCAAGTGCCTCCAGCCTGGGCAAGAGTGAGACTCCATCTCAAA  
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>Sequence 1243

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TCACAATAACAAAGGTTGACCCCTTGAGTTTCACTTTCCAATCCTTTCTC  
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GTGGAACCGTTTTGGGTTCAACCTTGACTTGCTTGAAACTCCCAAGAA  
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>Sequence 1244

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Table 2

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AGTAGAAATACCACATTTTCAGAAACAGCTGGAGTAGACAGGTCTTCATAG  
GCTAGCTTGGAAACCTAATAGCTATTAATAATGAAATTGTAATTATACTC  
TGGATTCTAAACAATGAACACACAGTGATCTTTTTGACTTGCTGCTTGT  
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>Sequence 1245

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GGTGAACCTTCCAACCTTTTAAATTATACTTGGATGTTCTTGGTGGGAT  
GGTTTGAAAAGGTGCCAATTTTGGAGATCTTTTCAAATTGAACCATTGT  
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ATG

>Sequence 1246

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ACATTTGGGCTTCTTCTTTGGGGGAGATGAATGCCTGGAGGAAAAATGG  
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GAAAAAAGGCTCAAAGGGGCCAAATAGGCTTGGGATAGGGGGTAGAAGGG  
ACCAGGTCTAGCATTTGGTTTCAGACCCCTGGGGGTTTCTTGGGATTGTA  
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>Sequence 1247

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GTCAAAAAATTTGGCAATTAGTAGAATAAGTATAAAAGGGGTTAATCAGA  
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CTTAAATTTTGGACACCTATTCAAAGATAAAATAATTTTTTATTTTCTC  
CAATGGTGGAAATTATTGGACCAAAATTAATTCCTAAAGGCTTTGGCTTG  
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CAGTCAACAAAGT

>Sequence 1248

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TCGTAGTAACAGTCCATTTCTCAATCCAAACCCCTGAAGCTTCAACCC  
GGCGCAGTTCATATCTTCAATAATCCGCCCACGGGGCCTTTAACAATCCT  
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>Sequence 1249

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TTTGGGTTAATTTTAAACAACTGAAGTCTTATTGTTGAAACTTATTTTAA  
CAAACTGTGCAGTTAAATTTGTATACGTATTCACATACTGAAAGATGAA  
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Table 2

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>Sequence 1250

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CTCGCGGAATTCAGAGAAGGAAGCTTGCCAGGGATTTTCATATTCCTGGCT  
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TATCTCGTATAACTAGTCGCCCCGCCAAATTTGCGAACTCCTGCAGCCAT  
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GATTG

>Sequence 1251

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AGCCTGTTCTGTAAATCAATAAACCCCGATCAACCTCACCACCTCTTGCTC  
AGCCTATATACCGCCATCTTCAGCAAACCCCTGATGAAGGCTACAAAGTAA  
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>Sequence 1252

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TCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCCTCTTATTTGCTTTA  
CAAGTCCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCCA  
GCATTTGCCAGGGACTGTCATTGCCTTAGTTTATTTTTCTGTTTTGTTT  
TTTTTTTGTCTTTTTTTTTTTTTTTTGTAGACAGCGTCTTAGTCTGTGCC  
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>Sequence 1253

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GGTTTTACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAGGTGA  
TCCACACGCTTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACC  
ACGCCAGCCTAAATATTTCTTTATAGCAATGCAAGGATGGCCTAACACA  
CTGCCTAAATCAAAATTGCTATTCACCTCAAGGGTATTCATTACCTGACT  
AGCTTTTTTGGGTGCATTTGAACATAATGTAAATTTATGGCTGATCAAA  
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>Sequence 1254

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ATCAACTTCTCCAAACACCCACCTTTGTCTTCTACCAATAGGGGTGAG  
ATCTATTGCTGACTTTTCTCCACCTTCTCTACATCAGCAGCACCTAGGG  
GAAGAAATGTTATTGAGACTATACCTAAAGGAAGAATCTCCTCTGTT  
GCACACTATTATCCAATTGGATAGACCCACATCTAAATGTCTGCAATTAC  
AGTAATGTCAGCTGGGCATGGTGGCTCATGCCTGTAATCCCAGCATCTTG  
GGA

>Sequence 1255

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Table 2

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CCCATTAGGGTCCAACAATAAAGCCTGTTTACAGTGTCCTGTCCTGTCCT  
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CCTGGCG

>Sequence 1256

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AGCAGTCTTTCTTCAGCTCACTTGGCTCTCTAGATCCACTGTGGTTGGCA  
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GCAGTAAGCACAGATCGCACTGCCTCAATAACTTGGTATTGAGCAGTAT  
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AATG

>Sequence 1257

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GCAGCCACATAAAGCGCTGTTTACACCTGGCTGTGTCTGCCAAGTTAGTC  
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>Sequence 1258

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TTATAACTTTTAGATGTCACAGAAAATTAGAGTATTTATTGTCAAAAAA  
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>Sequence 1259

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GAATGGCCAAATGGCCCTGGTAGGACTATGGGTCCTGAAGTCGTGCTGCC  
TGGCTCTGGCCACATCCCTGTGGTGCTTTTCCATCCTGATCTACAGATAT  
TCAGAACTGCAGGGAGTTCCTTTAGTCTGGCAATCTGAACCTGATTTT  
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>Sequence 1260

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GGCTCGTGATATGGACCTTACTGAAGTTATTACCGGTGAGTTCTAGGCCT  
AAGGAAAATTGCTAAGTCAGTGTACTCTTAGTGATGTTGAGAACTAGA  
GGGATTTCCAGACCTTTTACTTTTGTGATGAAAGGTTGTGAACTGGTGGCTG  
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>Sequence 1261

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CAACTCTGCTATTAAAGGACTCTGATGCATTCTTCAAGTATGTGAACTGCT  
TTTTTCAGCTCCAGAATTTCTGCTTCATTCTTTAAATCAATCTCTGTT  
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ATG

>Sequence 1262

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Table 2

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TATTTTAATCGGACAAGGGAACCTCTTTTCTTTTGGGCAATGGCCAACAG  
GACTGAGAAGCCAGAGAGCTTGCACCTGAGCCATCTCAGCCGTGAGAGTA  
ACAGTCTAGGAAAAATAGATGGGGGCTGGGGGTAAGGAAATGTGCTGAAG  
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>Sequence 1263

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CACCATGACTGACCTATATTTAATTTTTTAAAGATTAGACTGGTGTTAGC  
TGTAAGTATGTTGAAATACCTCTCTGATAGGTGCTAGCTTATCGTTACTC  
TTAGTGCTTCTTGCAATTTGCATAGTCAAACTTGATACTTTTTGTGAAGT  
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>Sequence 1264

ACTTTGTGTTTAAAGAGAAAATTCCTAAACTGGATATATGTGGCAGGCTGAA  
AGCACTGTGAGTTGAAGTCAAGGGGAGAGGTCCAGGCGCAGTGGCTCATG  
CCTGTAATCCCAGCGCTTTGGGAGGCCAGGCGGGAGGGTTGCTTGAGGC  
CAGAAAGTTGAGACCAACTTGGGCAACATAGCAAGACCTCGTCTCTACAA  
AAGATCTAAAATTAATATTAATATAAAAATAAGGTTCTTGCCCGGGACC  
ACGCTAAGGGCG

>Sequence 1265

ACCTTATTGTTAAAGTGAGTCAGATAAATCTTCAATTCCTGGCTATTGG  
GCAATTGAATCATCATGGACTGTATAATGCAATCAGATTATTTTGTTCCT  
AGACATCCTTGAATTACACCAAAGAACATGAAATTTAGTTGTGGTTAAAT  
TATTTATTTATTTTCATGCATTCATTTTATTTCCCTTAAGGTCTGGATGAG  
ACTTCTTTGGGGAGCCTCTAAAAAAATTTTCACTGGGGGCCACGTGGGT  
CATTAGAAGCCAGAGCTCTCCTCCAGGCTCCTTCCAGTGCCTAAAGGGG  
CTATAGGAAACATAGATCCAGCCAGGGGCTT

>Sequence 1266

CCCTTAGCGGCCGCCCGGGCAGGTAAGTCAACACTGATTTGAGAAGAAAAG  
TGTGATTTGCTTACCTGTGATTTTGAGACCTATATAGTGAAGGTTTGTG  
CCACTTTTATGTTTCTCAAACATGCAGAAGTAATGAGGTTTGACAGAGA  
CATGAGACTATAAGATGTCTGTCTATTGCTGCCAACCATGGAAGATGTT  
AAGATGTCCAGCTGCCCATAAATCATATTTTCAAAGTGTGAGACACGAA  
GAATATCTTTCTCTTATTTGAAAATATGCTGAAGATAGGAATAAAGAAAA  
GGATTACAGTAAATGGAGACGAGAGATACAGTAAAGCAGAAATGTATAT  
GCC

>Sequence 1267

GGTACTTTTTTTTTTTTTTTTTTTTTTGGGTTCTGTAAACTTTTATTTTA  
CACTTATGGGCCACTGCCAACTCAGGTGCCTTGGCTTCTTGACTCATTC  
TTACAAAGGTTACTTTGTTTGAAGATGGTATGTTAAGGTTAGATAATT  
TGGAATAATTTCTTGTCTAGGTAATACCCACAGTTTATCTTTACCCAG  
ATCCTATAAAATTAATAATGGCAACGTTTGACAGCCCTTTTCAGAAAAA  
TCTTATGGACCTTTTCTTGGAATTTTAAATAAAAAATGGCAATTTTTTTT  
TTTCAATTATTGAAAAAGAAAAACCAAAAAGCCATTTTTTGGTAAAAAAA  
TAGGACCATATTTGGTTCTTTAACAACCAAAAAATGGGGTTGTTGAAAC  
CCCTATTGGGCCTTTTATTATTTTATTAAGGGGCCATTATTATTG

>Sequence 1268

ACGCGGGGGGCTTTGCAGATGTGATTAAGCAAAGGACCCAGATGGGGAG  
ATTATTTTGAATTACCTAGGTGGACTCCACGTATCACAAGGGTCAGAAT  
CCAAAGAGATGTGAGAATGAAAAGCACAAGTGAGAGCAGTGGGATAGCCA  
AATTTTAAGAGGGTTGTGAGCCAGAGAATATAGGCCGCTCTAGAAGCTG  
CAGAAGGCCCGGGTGGACAGAGTCTCCCTGCGAACCTCCAGAAGCAGCAC  
AACCCTGCCCACTACGGTAGACTCTCGATCTCCGGGCTGTAGAATAATA  
CATCTGTGCTATTTTAAGCCACTGTTTGTGATTGTCTGTTACAGAAGTTA



Table 2

TAGAA

&gt;Sequence 1269

GGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAAGATATAGAT  
TTAAAAAGCATTGTAAATTGTATACTGCAATGTCGTCTAACATGGCATT  
GGAACAAGGACATAATGTTTAAACATTTAAAAGTTGCAAATGTGTAACACT  
TAACCATATGGATTAGTGTAATGGCATAACGTTGACCCAAATTTTTTTGTC  
TTAAAGTTTAAAAATTACCATAAAAACTTATTTAACAGCTGTACTTAACT  
GGGAATTTAATGGTCCTAATTATAGACAAAAATACTTTGGAATATCTTGG  
CATTTTCCACAAACAATTTAACTTGGGCAGTTGCCTTTTTTTTAGCTTTT  
GGCTTTTTGGAGGTGGCCTTTTTGGATGTTGGTAATGGGCCTAATTTAAA  
TAAACGTTCCCGACTAGATTTTTTTGTCTTGTGGTTCTAACATA

&gt;Sequence 1270

GGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAACGAAGTATCCTC  
TCCTGAAATTATTAGGCAGCACTTGGGTCAACCACTCCGCCGTGACCCAT  
ACCAAAGCCGTCGCCTTGGGCACCGAATAAACACAGACGACTATCCAGCG  
ACCAAGATCAGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTTG  
TTGCACAGGAGACTTCAGTGGAACAGGGCCTCCAATTCCTCAACTGCAT  
TTTAAACCAGCTCACACCAAAGGGACGGGATTTAACCGGTAATTAGGTAA  
CAACTACAACCCATTAGTTACCTTGCCCCGGGGCGGTGCGCTTAGGGGC  
CGATATTTCCAGCAACCACTTGGTCGGGCCCGTTACTAA

&gt;Sequence 1271

GGTACAATTTTAGTCAAGGGATTGTTTGATACTCTTTAAGTTCACTGCC  
AGGCCTACCACTTATCTCTGTGCGAGGAGGAGTTCTGTAAATGAGAGG  
TTTTTAAGACGTCCTTTGTTCTGGGATGAATCATAGGGAATGACTGCCTT  
GGAGCTCAGGATATTAACTGAGTGGTGTCAAATATTCAGGATCAAAT  
CGACAATGCCATTGTGTTCTTGGCCGGGCTGGCCGCTCCGAAAGGGCCG  
AATTTCCAGCACACTTGGCGGCCCGTTACCTAGTGGATTCCCAAGCTTCT  
GGTTCCAAATCTTTGGCGTTAATTCCATGGTCAATAGCCTGTTTCCTTG  
TGTGGAAAATTGTTTATCCCGCTCACC

&gt;Sequence 1272

GGTACTCAATGTACATTAACATAGGAAAGGTTATATATACACTATACAC  
TTCAGCCTTGAAATGTGGACCCAAAAACATTCTATTTTTCAGTAATCCA  
TTGAATTCGGTGAGGGTCCACACCCCTCAAATCCTAATTTATCACAGCAC  
AAGCCCTTCCTGGCTGCCAAGCGCTGGCGGAGAACTTTGTCTTGCTGCA  
GCTCTTCATGAATTGGATGCCAGAGTTTCGTGATGATCCTTTCAATGTTA  
ATAGCATAGACTTGCAATGTGTAGGGATGACTTCCCTTTGCACCTGCTAAG  
GTTGATAAGAATCGGACCTGCACTTGGCGGCCGCTCTAAAGGGCTAATTC  
TAGAACACTGGCTGTT

&gt;Sequence 1273

ACTTTTTTTTTTATTTTTTTTCTTTTTCTTTTTATTTTTTTTTTTTT  
TTTTTTTAAATTTTTTTTAAAAACAAACCCCTAAATCAAAAAACCCCC  
AAAAAATAACCCCTTTCCCAAAAAACCCCTTTCCCAAAAAACCC  
CCGGGAAAAAACCCTTCCCAAAAGCCAAACCCAAACCCCGATTCCCCCT  
TTGCCCCCCCCCAAAACCCCTTCCCAAAACAAACTTTTTTTTTTT  
TCTAAACCCCGGCCCAAAAAACCCCTTTTAAAAACAAAAAT  
TTACCCAAACCCCTTCCCTCAAATCCCAACAATTCAAAAA  
ACCCAAAC

&gt;Sequence 1274

GGTACTACAAACAACAGAAATTTATTGTCTCTCAGTTCTGGAGGCTAGAA  
GTCCAGAATAAGGTATTAGTAGGTTTGGTTCTTTCTGAGGGCTGTGAAGC  
AGAATCTGTTCCATCCCTCTCTTCTGTCTTCATCTGTTCTATGCTGTC  
TTTGTTCAAATTTCCCTTTTATATAAGGATAGCAATCATATTGGATTAGG  
CCCAGTCTAATGACCAGATCTTAACATTTGCAAAGGCCCTATTTCTCAC  
TAAGGTCGTATTTACAGGTATAAAGGGTGTAGACTTTAACATCTTTTGG  
GGAAGACACAGTTCAATCCGTAACAGATGGTTAGTCCTTTCCTCTCTAA  
AT

Table 2

## &gt;Sequence 1275

CCCCTAACCGTGGTCCCCGGCCGAGGTCCATTTAAAAGGGGTTGCTTAAT  
CCTTTAAAAGGTTTTAAATATTTGATTTAAAAGCCCTTGAAAAATTGG  
TTTCCTGGAATGGGCCTTTTACAAGGGCATTGACCAGGGACATTAATGG  
TAAAAACAATATAAAGTTGGCAAATTTGTTTTACACTTTAACATTATTA  
TAAGTGAAATGGGTCAAACGTTGACCCAAATTTTTTGTITTTTAAAGGT  
TAAAAAATATCCCAAAAAAACTTTTTTACCCGGGGGTCATAAACCTTGG  
GAATTTTTATTGTCCTTATATATGGACAAAAAATCTTTTGGTTACACT  
GGTATTTTCCACCCAAATAATTTTCTTTTTGCGGTGGGCCACTTTTTTG  
TGTTTTTTAGAAATTTATGAAGGATGTCTCTTTTTTAGTGAGTGACCAT  
ATTCCTTTTTTAAAAAAAACCTTTTCTCTTATTTTGATTATATAATA  
TCTACTGTITGTTCAATTATATATAACAAACC

## &gt;Sequence 1276

ACTATAAAAGGTTGAGTAAAAACAGGAAAGCGTGCTATAAGTTCAAATCT  
GTTGTATTACCCTAAATTAGATTAAACCAACCTGAATTATAGTAGATTC  
TCAATAGATGAGGAACTGAAAAATACTATGTAAATATCTTCCAAAATGC  
TTTTTATACITTTTTTATTTGTAATTTGGTCTATCTAAAATGTTTCGTTAG  
CTTAACCTTAATGGGCGTTATTGGATTTCATATGACTAACGTTTCCTCAGTA  
TTGTAATGCTTGAAATATTTGAAAGAAAAAATGTTGTTTTTAGTTGAAA  
CTGGTATATATAATTCAGTGCTTGGCAGGTTAGTATATTTTTATGCATTT  
TT

## &gt;Sequence 1277

GGTACCAACACAATTGTTAATTTCTCACAGGCTCAAGGCATTCTGGGAA  
GCTATACAGGGGACAGGAAGCATTTTGGGGAGCCTAAGGGGAGCCAGTTT  
GGAAGAGACAGCATTCCTGGCTAGGACAGGTGGTGGCGGTGGCCGGGT  
TTAAGGTTCTCCAAGGGACCCCTTGCAGATGCCGGGGCCCTGTTTATTCT  
GAGCACGTGAAGATGAGTCACATAGCTTGGTGGGAATGGCACGTGTGGAG  
CAAAGCCCTACACACACAATGGTGGTGTTTAACCAGCTTTATAGCGACTG  
TGTTTGAGGGGGACTGGTACATGTCACTAGGGGAACATGGTATAGGTGCA  
CCTGCTT

## &gt;Sequence 1278

GGTACTAAAACTAAAACCTGAGCAGTTTAAAACATTCATTTAAAGGGATAT  
CTAATGTGTTTATTATTAACATAAATAATGTTTTATGAAAAATGTAACCT  
TAGTTTTCCAAAACAAAAATGTTTAGGGCAAGAGTAACATTATTTTACAT  
TATTGCATCTCAGTGAAAAATAAATGGCAACAAAATTCTTATATCTGCTT  
CTGCAGTTAATCTGTTCATTTTGTTTTGGTTGAAGTATATGAAGGAAATC  
TGTCCTCACACAGTTGTGTAGTGAAAAAGGGGGACTATTGTAACAGGCT  
GTGCACATAATTGTGGATGATTTTCTTTGATACAACAACAAAACCTTGGGG  
GATG

## &gt;Sequence 1279

ACAATGTGATTTATCAATTAATTAAATTTGAATTCATGGAATGAAATAT  
AAGTCAACAAGTATGACAGTTTCGCTTTGTTTATTATGGAAGAATCATT  
ATAATTTGATAATTAATGGTCCTGAATGGTTAGCCATGTTCTCCGCATT  
TAAATAAATAGTATAAACATAAATGAAAAATTTAAAGTAATTTCAACGTG  
ATAGAGACCGCTTATTTTAGTTTCAGGTAGAGTTCCAACCTAATGGTAAT  
TAAGATTCCAGATCCGAAAGATGTCATGTGAATATTGCTCTGAAAAACCA  
AAATTAAGCTTTCTTAAAGATGCTGTGTAGGGCTGAGAGGTTTTTCACT  
TGTACCTCG

## &gt;Sequence 1280

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAAGGCAATTTAATAAGAT  
TTGAGCATAGATATTAACCTTAGCATGGACAGAGAACTTATTTCTTGGG  
GGACTGGCATAGTGAAAGAACAGAATCAGTATGACCTGAGAGAGCAGAAA  
AACTTTACAACAGCTAATACTACTTGCTACATTGCTGTTGCTTTAAGATT  
TGAGGGAGGAGGTACTAGAGCCTGCCTGAGATCCTTTTGAGGTCAGTTTT  
GAATTTAAGCCTTTTCTTTTTTTTTCTTTTATTAATTTGAAATTTAAAA  
TTATATTTTTGGGTGTTCTAATTATCACTAAAATTTCTAATTTTTTCTT

Table 2

TTTACTTTTATACTTTTT

&gt;Sequence 1281

ACCTCTGACTTTCTAACAAATTACCATAAAGGAAGAATATTTTTTCGTCTA  
CTATTGTTAGAACACCTTAGAACCATCAAAAATATAATTACATGGCTAAT  
AGAAAAAAGAGCAGTTTTAAAAATATGTTTTATGTAACCTATTTTCATT  
GTTTTTCATTTTGTGTTGCCGAATAGTAGTTGTTCTAAGTAAATACAGG  
TCTCAATTCCTATGAATAAAAAAAAAAAAAAGGAAAAAAAAAAAAAGT  
ACC

&gt;Sequence 1282

GGTACTCTTTCTTATTTTCTTAATCAATACAGCTAAAGGTTTGTCATAT  
TGTTGATCTTTTTAAAGAACTAAAAATTTGTTTTGTTGATTCCTTTATT  
TTTTTTTTCTGTTTTATTTATCACCCTCTTATTTTAGTATTTCTTCC  
TTCTGGTAGCTTTGGGTTTAGTTGTTCTTAAGTTCCTTAGGTGTAAAGT  
TACGCTGTTGAAATGAGATCTTCTTATTTAATGTATGCATTTATAGCTCT  
AAATTTCTCTTAGCACTGTTTTCACTGCATGCTCTAAGTTTTGATAT

&gt;Sequence 1283

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTAATTAATAAACCGG  
GACTTGGTGGGTTGCCCAAGCTGGGCTTGAACCTCTGGGCTTAAACAATC  
ATACTGGTTTGGCCACCCAAAGCACTGGGATTACCGGGCTGAACCACCAC  
ACCCAGCTTTTAAACACAGTATTTTAGGGCAATATTACACACCTGGC  
CCAAGGACTTACAGGGGGGGGAAAAGCTTGGACTTTTGGCTTTTTTTTT  
TTTGGACCCAAGCACCTGGAACCTCCATTTCTTCTTCAATTACGTTT  
AAAATC

&gt;Sequence 1284

GGTACTCACAATAACAAGACAAAATTTGACCTGTTCAATAAATAGAAATG  
AAGTGGCTAAAAATGTTTAAATGGAAGTGGAAAACAGTCGTCTTCTTTGT  
ACTTGGTCTCTACCTCAGATAATCTTCTTTGAGCTTTTGAGTAGCTTCT  
CCTTTTTCACTTAGTTCTACATGTATTCTATGCAGTGAGGTTTCAGATGC  
AGACAATCTTGACTGAAGCTGTTGACAATCTAGGTCTTTTTGATGAAGGG  
TTGCCTGAATATTCTTTTACTCACAGATTCTTCATTATGTTTCTCCT

&gt;Sequence 1285

CCCTTAGCTTGGTCGCGGCCGAGGTACTTTTTAATCTTATTATTAACTA  
ACCCCTGTGGTGGTGTGGCTACATTCTTTGAGTTTAGAAAACGAGATAAA  
GAATTGCTCATATCTTCCCAAATTTGTGTAGTATAAAAAGAATGCTGTCT  
GGTTGTTTTTTGTAGAATATGGAAGTCCCTGCAGTAAGTAGGCAACATGC  
TACCTTCTATTCAACACAGCACTAGAACAAGGCAAGTGGGACCTTTGTC  
GACACATGATTTCGATTTCTTAAAGTCATTGGCTCTGGAGAATCTGAGACA  
CCTGCATCCACACCCACAGCTCAGGTTAGCTGCAAAAGTTACACATCTTC  
TCTAGGCCATACACCCACGTAGCATCTTCTCTAATGGT

&gt;Sequence 1286

ACACAGGATGTGATCAACAAAGTTCTATTTTACAGGAGTATGATCCTGTC  
GATACCTTGCCGTAGGTTATGTAACATGATTGGAGCGCAACCAGCTGTTT  
TCTTGACAGATCGAGAGTGAGGGGTATTTTGTGACATTACACAGCATCA  
GGAGCCTGGTGCCTCATCAGGTGTAAGTTCTTATAACCACTCTTGGCAAA  
TTTATTAAAGACAGGAACACAGTCAATCTGTAACCTCATAGTAGCTCTACG  
TTTACTTGAATCCACAATCCCTAACCCTCTGTCCCTGGCAGAAAGAAG  
GAAAGATGACATGCATGGACAGTGAACAGAAAGGGATGAAAGCCAGGATT  
CCTGGGATGAACAGACAGTGGCAATTAGGATGTGAAGACAGGTCACAACC  
TATTACTATGTCTAAAAACGACCAGAGCAGAGAGCCAGAAAGAATAAGCC  
TGAAGTCACTCCACTCAAAGCAGCCAAACTCCCTCAAAGGAGTAACTT  
TAAAACCTGGATCTAAACCTGAAGGGGCTAAAAAGTGTCTGTTTCTGAG  
TTTTCTTCTTAAAGCTCATGAAGCAGATGAACCTACATTTTTATTGCCA  
TTTCATATCAAATGTGGGTGGTATAACCTTAGGATTTCAACAGACTTTTG  
AAGTGTGGACTAAATATTGTCCTTCGCCGCGACACGCTAAGGCGAATTCA  
ACAACCTGGCGCGGTACTGTGGACCGAGCTCGTACCA

&gt;Sequence 1287

Table 2

GGTACATTCCAGTTCCTTATCTGAATACAAGCGTTTTGCTTTTATTTCCA  
GTTTCTTGGACCAGAACAATAAAATACATAAGACATCGTTTCTATATGGT  
CATATACTATATAGAATAAAGAATTGTTATGTAAATTATTAATGAGTAT  
ACAGACCTTTACATAAAAACTAAGGTACTTTTTTTTTTTTTTTTTTTT  
TT  
GATTTTGTTTTTTGTGTTGATTGTGGAGTAGGAGAAATAGTGAAATTGA  
AGGTAGAGG

>Sequence 1288

GGTACCTTGTGCAGACCGCCTACCTCATCCTGTGACTTAGAATGCCTAAC  
CTCCTGGGAATACAGACCAGTAGGTCTCAGCCTTATTTTACCCAGCCCTT  
GCTACATTCAAGAAGGAATCACTCTGGTTCTAATGCCTCCGACAGAATGG  
TCAGATTCTCAGACTCTAAAGCAAAGAAGACTATGTTTCAGTGACAGCAAG  
ACTGTTGAAGAAAAATAAACTCGAATGGCCTTGAGGAGCTATTATCAATA  
AAACAGTATAAATTATAATTATCTGTTGTGTACAAATGAAGTATATCAT  
CACTGCT

>Sequence 1289

ACTAAGGTTGTTAGCCCTCTGCTGGAAGAGAGTGTATTAGTCCATTTTCA  
CACTGCTGATAAAGACATACCCGAGACTGGGTAATTGAGAAAAAGAGGTT  
TAATGGACTCATAGTTCCATGTGGCTGGGGAGGCCTCACAATCATGGTGG  
AAGGTGAAAGGCACATCTTACATGTTGGCAGGCAAGAGAGAAATGAGAGC  
CAAGCAAAAGGGGAAACCCCTTATGAAATCATCAGATCTCGTTAGACTTA  
TCCACTACCACAAGAACAGTGTGGGGGAAAGCACCTCCATGATTCAN

>Sequence 1290

CCCTTTGAGCGGCCGCCGGGCAGGTACATAGGCTCTGCCTATCTCTGTG  
GCATGGATCCTACATCCACAACCTACACATTATTTATTTATTTTATTTT  
CAAATCCCAATTCCCCAGAAATGGTCCTCACCTCATTGACATATGCAGGA  
AGAGCCAAGGGGGAAACAGCAACTTGGAATGACTATGACAGACTAACAC  
AAAGGACAAGAAATGGCTCTCATGGGATGTAGGTGGAAGGAGAGGCCTCT  
GGCATTGGCAGCTCCCTACCAGAGGTGTCCTGCCCTCTGTTCTCTTGGGG  
TAAGGGAGCCACTGGGCAGGAGTAGGCAG

>Sequence 1291

CCCTTTGAGCGGCCGCCGGGCAGGTACATAAGCTCTGCCTATCTCTGCG  
GCATGGATCCTACATCCACAACCTACACATTATTTATTTATTTATTTT  
CAAATCCCAATTCCCCAAATATGGTCCTCACCTCACTGACATATGCAGGA  
AGAGCCAAGGGGGAAACAGCAACTTGGAATGACTATGACAGACTAACAC  
AAAAGACAAGAAATGGCTCTCATGGAATGTAGGTGGAAGGAGAGGCCCTT  
GGCATTGGCAGCTCCCTACCAGAGGTGTCCTGCCCTCTGATCTCTTGGGG  
TAAGGGAGCCACTGGTCAAGAATAGGCAGC

>Sequence 1292

GGTACATTTTTCCTCTTTTTTTTTTTTTTTTTTTTAAATTCTGAGATT  
CCCCAAGCTGTGGATTCTTCTACTCCTTAAGAAAAAACTTTGGGTTTA  
TTAGCATCTACACTTTTGTGAGTTGTGTCGCTGTTTTCCACCCATTTTA  
TTATACTCTTAAAAGATGTAATTGTTGTCATTTGAACAGTTAAACATCT  
TTGGGTATAAAAAGAACCCCAATGGTTATGTTATGCTTTGTAAATTTTGT  
TTTTTTGGTTTTTACCTAAATAAACTTTCAGCTAATCATATAAGGAAAGAG  
ACTGTCCTTTTTT

>Sequence 1293

GGTACTACCTGTTTAAGGACATACCAGAAAAAAAGTATTGATTTTATCC  
TATGCTAAACAGTGCTGTGATAAATTTTGTATCACTTGGAGAATGCTCCT  
GAAATTATGCAACACTACTAGATAACCCCTGGATCAAAGAGGAAATCAAA  
AGGGAAATTTCACTGTATTGTAAAGAGAGGAGACTTTTATGCCAAAT  
ACAGTAAGTCTTTTAGTCAGATAAAATTAATAATCTTAAATTCCATTAT  
GTTAAAGAAGAAAGACAATTAAGAAATCTGACACTAATCAGAAGAAATTA  
GAAAACGAATAAGTAAAAGAATCTGAAAAGGAGAAATAAAAA

>Sequence 1294

GGTACAGTGGGAGAGTGAGGTGGGAGAAGAAGAGTGTCTGGTTTTGTGTG

Table 2

CTTCACTGTCTTCTTGGCATGAGCTATGTTTTAATTTGGAAAGAGTAGGG  
CCGCTTCAGAGCCTCCTACAAAAGTGCTAGGGCCAAAGACTTTCTTAGCT  
TGAACATTTGTATCTGACTAAAAATTGACTTGGGCAGCGCTTCTGGAAAA  
TGACTTTGTTTTTGGCCTTTTTCTGGTGGGTGGCCCTTATGAGTCGTCT  
TCGGTTTTTTCTTTCAACAATTTGCCCCCTTGAAAAATGAATCCACCAT  
GGTGTGCAACCTGTCTTTTTTTTTTGGACTAGGCCCAATATCACCTGAT  
CAATGGTAATTTTTTCTCTTTTGGGGGGCCTTCTTTCAATGAAAAC  
CCAAATTCCTTTGGCCACCTCCAACAATTTCTTTGGGCCCGGCCCTTT  
CCTGG

>Sequence 1295

ACGCGGGCTCTCTCCATGGGTCTGTGTTCCAGAAAGCTATGACTCTTTAA  
TGCATCTCTTAGTTTTTCTTATTTCTTTATTTCTTAGTATCACAGTCC  
ATGATATCCACTGTCCTTGGGGCGCCCAATTCATTGTGCAAAAGCATTTA  
AATCAAAAATACCCTATTTGTTATTTTTTAAAAAGTAAAGTGGGGATGAC  
AAGTCAAGTGGAAATTTATCCCAAAAGAGTGGGGATTACTGTGACTATCT  
GAGGAGTTATACTTGATTTTTTGTCTGATTTTAATGGACTGTAGGATCT

>Sequence 1296

ACAATGCACATGCCGAAAGACCTTAATTTTGGATGTGATGAAATGTTTTC  
TATGCCTGGAATAAATGCCTTTCTTTGGGATGTAACCTTGCTTAAATAGTA  
TTTGTCTCTCTGTGAGTTACTTTAATTTTGTCTCTGAAGTAAG  
CTATGATATTCTGGCTTTACTAGTGGTGACTCATCTATCTGGGTAAGAAT  
AGACTACATACTCATTTTGGATGTATTTTGAATTTAAGTTTGTAAGTGG  
TCCACTATTTTAAAAATATTGTAGAGTGCTGATTACTTCCATTTGGGCCAG  
TGTAGCACCTGTGTTTATCAGGTAGGTAGATTGGATANTTGGAAATGGA  
ATATTTAAATCTATAATAAACCAATGGTTTTACAAATGCCTTTATAAATC  
TAACATTGCGCTTCATCTAGATAGAACTTTCTGAAAGTGCTCCTGTCTC  
TACTTGGTGTATAAAAGGGATGACATTTCTTACAGACCAANTATATTGTT  
CGTTACTAGGATATTATCTGTGATCATCGTCTCGTTCGTAACAAGGAA  
AAGAATTCCATTGTTTAAATGAAGAACTATGTGGATTAGAAGAGNATAAAG  
ACAACCGTCACAGGGGTGCGATTAGTAAATTGAAATGAGACATGGAGCAT  
ATTTAAATGTGAGAAGATGTGTGAAATGTAAATCCATGACTACTCGGTG  
GTCGACTTCCGTCGTTGTAATATCCACATACTGTAGTGGACAAGTTTAT  
CATAGCAGAACAGTGACGGAAATAGTCTTCGAGTCTCAGTGAGTAGCTAA  
ATATCGCACCTTGTCTATCGAACATGGAGAACTCATGATCAACTAGGATG  
AAATATTATCGTTGGTCATTGAAGGGACACTACATATTGAGATGCATGAT  
ACG

>Sequence 1297

GGTACATTTAAAGGTGATGCTAATACTTTAAATGTTTAAGATATAGAT  
TTAAAAAGCATTGTAAATTTGTATACTGCAGTGTCTGCTACATGGCATTGG  
ACAGGACATAAATGTAAACATAAAAGTGCAATTTGTTACACTTACATATTG  
ATAGTGAATGGCTACCTGACCAATTTTGTCTCAAGTTAATTTCTAAAA  
CTATTTCACTGTCTACTGGATTTATGCCATATTACACATTTTGATATTAT  
ATACCTAAATATTACTGGCATATTTTTTGTCTTTTTTTTGTGGCTTCAT  
ATAGTTTACATTT

>Sequence 1298

CCCTTCGGCCCGCCGGGCAGGTACGCGGGCTTCCTACTTCCACCAACCCC  
TCTTGACAGAGACTGCTCCATTCCAGTAAAAGGTGAAGGTTCAACTGGAGA  
CCTCCAAAGTTGGCTGGGCCTACGGTTTGGGGTAGGCAATTGCTGGATGA  
GCACAGAGAGGGAAAGATTTTCATGCCATGGTGATAATAAAAAGGCCACC  
TGGGGTATGATATTGGGGACTAACGCTTGTTATTTCCCAACGCTTTGGGAG  
GGCCAAGGTGGGCGGATCACGAGGTTTAGTTTTTCTAAACCAGTTTAGGT  
CAACAATTGTGTAACCTGTATTTCTTATGTTGCTAAAAAAAATAA  
T

>Sequence 1299

GGTACTAAACGTGATGAAAAATATGCCAGACCTGGCCGGGCCTGGTGGCT  
CAACGCCTGTAATCCCTGCACTTTGGGAGGCCGAGGCAGGTGGATCACGA

Table 2

GATCAGGAGATTGAGACCATCCCGGCTAACACAGTGAAACCCCTGTCTCTA  
CTAAAAATACAGAAGAAAAAGAAAAAAAAAAAAAAAAAGGTTCTTTGTTT  
ACTGCAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAACATAA  
AAATGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAAT  
TTTTG

>Sequence 1300

ACATACAAAAAATCATTAACTCATATATTTCAAGAGTAGGAAATGGGAA  
CTGGTGTAAAACTCTTATAACATATGTCACTGTCTTAAGGGACAGTGTT  
TAAAAACGCATACCTGGCCGGGCGCGGTGGCTCATGCCTGTAATCCCATC  
ACTTTTGGGAGTGCCGAGGCTCGGCTGATCACAAGGGTCAGGAGAATCGA  
GACCATCTCTGGTTTACACAGATGAAACCTGAGTCTCTACTAGAAATTAC  
AGAAAATAATAAAAAATAAAATGTCTATTGGACTGAAAACAACACTAAGG  
TGCGATTTCCAGTTCACTGGGCGGTACTTTTTT

>Sequence 1301

ACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAAAGATATAGATTTA  
AAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATTGGACA  
GGACATAATGTAAACATAAAAGTGCAATTGTTTACACTTACATATGATT  
GTGAATGGCAACGTGACCCATTTTTGTCTGAAGTTAAAATACCAAAAAC  
ATTTCACTGGTCTCTGGATTTATGTCTATATTGAAAACTTTGGTTACTGT  
ATTCCAAACTTTTCTTGGCATAGCATATTTGATTTTGTTTGTGTGCTT  
TTGAGAATATGGACTATT

>Sequence 1302

CCCTTGAGCGGCCCGCCCGGGCAGGTAGGGCGCGCAGCAGCACTCGCCAAA  
GTCGTCGGAGATGCGGCAGGCAAGGCACAGAGGAGCAAAAGTGCCGCACA  
GACAGACAGGCATGTCTGTCAGCAGTCCGTGAGACCTGTGTGCCAGTCA  
CTGAGCTGGGTCTGGTAGCAGCTGGTGGTGGCGCACTGGGGCTGACTGGT  
CACAGGGTAGGACATAGCTTTGCCTTTCACGTTGTCGTGCATCTCAAAC  
GCATCTTGCTGGCCCTGAGGAGGTGGCGTTGGGGACGGCAGAAGTGGCTG  
TGCCAACAGTGGCAGAGTCTGTCCAAGGGACGCTGGATACTGCAGGATCG  
CGATGGCAGTGA

>Sequence 1303

GGTACTCAAAAAACAAAACAATGGAGTATGTCCTGTTGGTAGAAAAATTT  
GAGCAACAAAAATAAATAAAGTAGTATAGGATTATGACCCCAAGTAAAAA  
TAACCATCTATGAGTCCATACATATATAAATAAATGATTGAATAAATATA  
TAAACGGAGAAGAAAAAAGACTATCCATAGCAGAAGAATTCCAAATAAT  
TTTATAGACAGCTCCCCTTTAAGAAAACAGACCTACTGAGTGTGGTCTAC  
AATTAATGCTCGCGT

>Sequence 1304

GTGCGAAATCGTAATGCGTTAACATCTGGGGCGCCTAATGCGTAGACGTA  
CCTTCATGAGTTACGCCCTGGCGTGGCCTTACGAGTTACCTAATTCAAATT  
TATTTGCGCTCGCCTTCATTTGATCAATTTTCCATACGCGAAACCTGTAG  
CGCCATCTTTATTTAAGAAATCTTCCAATCCCCGGGAAAAAGCCGTTAGC  
TTATTTGGGCATTTATCCCGATACCTCGGTTATCTTTACTCCCTAACACT  
CTGCCCTTCCGGTTTCGTCAAGCAGTATTAGTTTACTTCAGAGCGCGTAT  
TTCGGTTTACCTCGAAATCAGGGAATTCACCGCAAAAAACCTTTTATCC  
AATAGGCCTCAAAGGCCCTAAAACCCTAAAAGGCCTGTTTATATGTCTC  
TTTC

>Sequence 1305

ACACTGAAAACTGGACATTATAACATTAATTTTATTAGCTCTCTGGGAGT  
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AGACAAATACTGCTGTGACACCATACTGTTTCATTGAATTTGATAACTTC  
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GATAAATCTTTCTGACATGCAGACGGAAATCAAGCTGAGGCCTCCTTATC  
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Table 2

GGAACCAGCAACTCTGTCAGGGATTGTAGGATTTATCCTTAGTCTTTTAT  
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CACAGCCTGCCTTTACCAAGTAAGTTTCTTTCCTTTTAAGAAACACTTA  
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CTTAAGGGAATTC

>Sequence 1306

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CTGTACCTCATCCATGCTATCAGTCTACTTTCCTCTTAGCCACAGAAA  
GCCCTGAAGAAAGTGGCATAAAAAATGACCTGGCTGGGCACAGTGGCTCAT  
GCCCCATTATCCCGGCACTTTGGGAGGCCGAGGTGGGCAGATCACCTGAGG  
TCAGGAGTTCAAGACCAAGTCTGGCCAACATGATGAAACCCGGTCTCTACT  
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TGCAGTGAGCTGAGATCGCATCATTGGACTCCAGCCTCAGCGAGAACAGC  
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TTAATCTACTTGGTTTTCCCTGGTTGGTGCAAAGTGTACCCTGGCCGGGG  
CGCCCGGTTTAAAGGGCGAAATTCCAACACACTGGGCGGCCGGTTCTAAG  
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>Sequence 1307

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GAACAATGGGGCTGTGTATATGGAGACTGGTGGGCCACTTTCAGCATCAA  
GTAATCAATTAGTTGTTCTCTAGAGGGATGCCTTGCCACAGATGCCTGAG  
GGGGGTGATGTATTTGACTATAATTTGCCTGAGGCCTGAGAGGCTGGCCC  
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TGACCAATAATAATGTCTTATTTCAAATATTTGGATTTCTTCTTGGAGCA  
TTACAAAAGCACTAGAGTTTCACATTCTAATTAAGTCAAACAATACCAT  
GCCACTTACTATTTTTCTATAATTTTAAACTTAAAGAAATAAGCTATT  
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>Sequence 1308

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ACCACGGCAAAACAAAACTTACCCATTTTATCTTTTTCCCAATTTT  
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>Sequence 1309

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Table 2

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CAAAAAAAGAGCCGGAACAAAAAGGGTAAACCCGGGGGGGCAATG  
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>Sequence 1310

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TCTATATAATGGTTTAAATTATACTTGGACGTCGACCCTGCATATACACTA  
TATATTTCTTGGAGCTATCTTAACTGCGAAGAAATTGTAAAAATTTGAGAC  
GTCTCTCATGAAACATATTGAGATATGTCGATAATGGAACATGTATTGTT  
TCCTCGTTGTTGGTATAAAATATGCACACTGAGCTCAAGCGCATGTAACA  
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ATGTACGTGCGCGATAAAGTCGACACTCATGNTGGTGATTATGTAGTGTGT  
TATATGTCTACTTACACATATGTGACTAGATGTATACACTGACTGTAAGC  
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CGCTCCTATATGTGGTCTGTTATGTATCTTCTGTACATATATAGGTCGC  
GGTGCGCGTTATATCTTACGTGTGTGATATACCGNAGCACTCGTGAGATA  
CGCAATGGCATTTGGTGTCTGTGACATATCATTTGTGACTTATGTAAAGNTA  
GATATTACGTGTGGTGTGATAAAACANTCGATATGTCTCAATGTGTCTAG  
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>Sequence 1311

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TCCTACAAGCCTAGTTTTCATGAGATTCAGCCCTATTTTATTTCTTGCTC  
TTGGAATTATATGAAATTACGAATTTCTGTGTGTTGTGAGCTGTAATAGA  
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GGCTTGAGCCCAGGAGTTCAAGACCAGCCTGGGCTACATGGCGGAACCNC  
ATCTCTACAAAAAATACAATAAAAGGTAACCTGGGCATGGTGGTGTGTGC  
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AAGGCGAA



Table 2

## &gt;Sequence 1312

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TCCAAGAATCATCCACGGAAGGATGTCAGCCATTTAACCAGGGCTACGGA  
TCAAAAAGGAAAAATACAGTCAGTGGACAAGTAGAAGAGTCTCCTGAAA  
AATATCCGTATTTGAAAAGGCAGCAGGAGTTGATAGAAAACATAACTAAA  
AAAGTAGAAGACACTGTAAATTTGAATCTGGATCCTATAT

## &gt;Sequence 1313

GGTACTTTTTTTTTTTTTTTTTTTTTTGGTNATTTTTTTTTTTTTTTTT  
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CCCCAAAAAACCAAGGCTTTCCCTTTCCCAAAATTTACCCGTTTTCCA  
AAACCAAAGTTTTAAACCTTTGAATTTTAAACCCCCCTTCTAACCGGAA  
AAATTTTTTCAAATCCCCTTACCCCAATTTAATATAACCCAAAATTTT  
TTTCTAAAATAAAAAATTACCCCCCAATTTAAGTTTTTTTAGCCCAAAA  
TTGAACCAAATTAACCCCGGGTCTAAAACCCCAATATCCTGTTTTGT  
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CCCCCCCCTGGCCGCTTCCCTGTGGATCCACCTTTGGCCCAACCTT  
GGCATAAAACAAGGCCATAACCTTTTCCCTGGGAAAAATTTTTATCCCCCA  
CATTTCCCCCACTTACTGCCCCGAACCATAAAATGTAAACCCCGGGGGC  
CCCAATAAGGGGGCCCCCCCCCATTTATTGGCGTGGCCCTCCTCCCC  
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CACACCCCGAAAGAGCCGTTACGGTTATTGGCCCCCTTTTCCGTCTC  
CTCCTACAAGACT

## &gt;Sequence 1314

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GACATCCACACATAGTGGTGAACGTATTTTAAATGCGTTTTAAATAACAA  
GCATTGAAAAATATTAATAATTGTAGTTACTAAAAGTATTTCTCTTTGCG  
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CTCTGGTCAAGAGAATGAATATGAGGATGAGGAATAATAAACTCTCTTG  
GCAAGCACTTAAATGTTCTGAAATTTGTATAAGACATTTATTATTTTT  
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TTGCCGTGTATGAAGAGTGCTAGAAAATGCAAAGTGCCATATTTCCCTA  
ACCTTCAAATGTGGAACCTTGATTCAATGGTGAAAAATAATTCATCATAG  
TGAAATGTTGGTTCAAAATAATTCTACACTTGCATTTGGAATGTTGTGC  
TTTTATATAAAGAGACTGGTTGT

## &gt;Sequence 1315

CCCTTTGCGGCCCGCCCGGGCAGGTACATTTGGTGGAGTTTGAGACCAGCC  
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CGCATTTTCGATAGGGCTATGTAGCTTTTAAAGTAAGCAATGTTAGAATGAG  
TTGTAGAGTTTTATTTTTGTGAATATAGTGAGTGACAGATGGCAATTACA  
TGAGGATATTTGAACGAAGGTACC

## &gt;Sequence 1316

GGTACCAAAGACACTTATTATTCTAACATGCATCAAGTAAAGTAAAACAA  
GGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGTAAG  
GTAGTGGACAGC

## &gt;Sequence 1317

ACTNNATGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTTTTTTTT  
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TTTTTTTTTTTTTACAGAATCAGTTTAAATAGCGGGGATTCTCCATA

Table 2

ATTATCAAAATTTTTTTTCTTGGGGTTTTGGCTAAGGGGGGCTGAAATC  
AACAAAAGGCCTTGGACTGTTGGCTCAAAAATTATTCTAAAAAGCCCCC  
CTGTTGATATTTGGCATGCTTAGCCCTTATGAAATGACCCCTTCCTTAAA  
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>Sequence 1318

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AAAACACATGCACACGTGTTTATTATACCATACATACAAACACACATACA  
ACTTAATATTTACAAGCACATACAAGCACATACAAACATATAAAACAACA  
ACAACACTAATTTAACATACATACAATACTTACAGCTTACGTTTTTTGCG  
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CGTCTAAAGGAACTGATCTAGGTCTGCAGAAAACCTTTTCCTTTAAATA  
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>Sequence 1319

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CTCAATATGGGTGGGCACCATCCACTCAGCTGCCAGCGAGGCTGGAACAA  
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TTGGGCCTTTGGCCACAGACTGAATGCTCTACAGTGTGGCTTCCCTACT  
TTTGAGGCCTTTGGACTCGGACTGGGCCACTACTAGCTTCCCTCCTC  
AGCTTGCACGTGGCCTATAATGGGCCTTACCTTGTGAACATGTGAGCCA  
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ATAT

>Sequence 1320

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AAACAAAAAA  
AATAAAAAATACACCCATACCAATTATTTCAACTAAACCAAAAAAATAT  
TTTNAAAAAAAAAAAAAAAAAAAAAATAAACTTAAAAATAAAAAAAAAAAAA  
AAAAAAAAAAAAAACTAATTTAAAAATAAAAAAAAAAACATTTAATCCTTA  
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ATTTTCAAAATCTTCATATCCATATAACCTAACCAAAATAAAAAAATA  
AATTAATAATACAAAAATATTNCTTCTTTTTAAAAAATAAAACCCCA  
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AATCCAAAAAATAAAAAAATAAAATAAAATAAAAAATAAAATCAA  
TACTCATAAAT

>Sequence 1321

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TT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAATCC  
CCCAATTTAAAAAACCCCCCCCCAATTTTAAAAACAAAAAATTTTTTA  
AAAATTCAGAGAGGGGAAAAAATAAATTTTCTAAAAAATAAAAAA  
ACCCCGGGGTTTTTTTTTTAAAAAATAAATTTTAAAAAATAAAAAA

Table 2

AAAAAATAATTTTTTGAAAAAAAAAAAAAAAAAATTTCAAAAAATGGAGA  
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AAAAAAAAAAAAACCCCTCATTTTTTAAGAAAAATGGGGGGGAAAAA  
AACCCCGAAAAAACAATACTTTATTTAAAAACATCAAAAAACCCGGG  
GAGGTTAAAGAAAAATTTTTATAAAAAAGACCAAAAAATTTTTAAAAA  
AGAAAACCAAAAAATTTATATAAAAAATATAAAAGGATCTTCTN

>Sequence 1322

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AGAAACAAGGAACTGAGAATGGAAGTTAGTGTAATCTCTGCATTGGG  
GAGTTGTCATTAATCCAGAGCCAGCATAGTTCCATGGAGCCCTGAAG  
GGAGGGGACCTCCTGCCACAAAGAGTTTCGTTCCAGACGAGTCGTAGCAG  
TGGGTGTAAACAGCATTGGGGAAGAAGTCAATGTCTGAAAAGTAATCCT  
CCAGGTTTCATCATGATTCTACGGGAAGAGAAAGAGACTACAATTAGCAC  
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GGTCTCCTTAAGGGAACAGGGTTCTACAGGT

>Sequence 1323

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GGGGGAAACTN

>Sequence 1324

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CAGTAGGCAATGTAAAAATGTTTTGTGTGAATTTATGTGAGTTATAAT  
CTAATTCTATGTCAATATTCACCTCAGATTACCACATGAAAGCTCAGTCA  
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>Sequence 1325

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GAGGAATAATAAGCTGGCAAGTCACAGACAACATAATTAGACTATCAAA  
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CAAAGTAACATGTTCAAGTGATGAAATTGGGTAACCTTAGGATAATGATG  
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CCCTTTATGAAAATAGAGCCTAAGAAAAAACCCAAACGTATGGGTAAC  
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Table 2

ATTTAATTTTAAAGGGATT

&gt;Sequence 1326

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TACATAGAAAACAGCATTCTTTTGGCCAAATATGACCAAATTACTTTTAT  
TTATAATTTTGGATTTATGTTTCAGCTAGATCTAAAAAGCATCTGAAGGA  
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AAAGCATTATAATGACTGACACTTGTATCTAACTCCAGTCTTACAGATAA  
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&gt;Sequence 1327

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CTTTCACCATGAAAATGTTAAAAAGATATAAAGGAAGGAGTTAAACAATAT  
GGATCCAACTCCCCTTATATAAAAAACATTATTACATTCCATTGCTCATGG  
AAATAGACTTACTCCTTATGACTGGGAAATTTTGGCCAAATCTTCCCTTT  
CATCCTCTCAGTATCTACAGTTTAAACCTGGTGGATTGATGGAGTACCT  
GCCCC

&gt;Sequence 1328

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GACNNNTNTCTCTATTACTCGGCANCCCCCTGCAAGCCTCTCTTCATCTG  
GGGCCATTCTTCAGCAATNAAGAAGGGCAAACTCTCCAAAGTTCATTTTG  
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AGGCAAGGCCTTCATGGAAGAACCTCTTGGCCAAAGGTTGAAGAAACGAA  
CAATCATATGCCTGNCAATGGGGAGGTCCCGAGGAAGCCCTGGCTGAATGA  
GGTACCCTCGGGCCCGCTTCTAAGAACTAAGTGGGAATCCCTCCGGGG  
CTGGCAGTGAAAATTTTCGATTATCAAAGCCTTAATTGCGAAATACCCGTCC  
AACCCTTCGGAGGGGGGGGGCCCCGGGTAACCCAAGCTTTTTGGTTTCCC  
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TCAATAGGCTGGTTTCCCTGTAGTGGAATAATTGTTTATTCCGGCTCAACA  
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&gt;Sequence 1329

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AGGATGGCCGACTTAAGGCAGGAGACAGACTTATAGAGGTAAATGGAGTA  
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CAAGATGGAAGGAACTGTGAGCCTTCTGGTCTTTGCGCCAGGAAGACGCCT  
TCCACCCAAGGGAACCTGAAAGCAGAAGATGAGGATATTGTTCTTACACCT  
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ACGCAGATTTGGGAATCTTTGTCAAGTCCATTATTAATGGAGGGGCAGCA  
TCTAAAGATGGAAGGCTTTTCGGTGAATGATCAACTGATAGCAATTAATGG  
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GGTCTATGTCTACTTGGAGGCCATAAACGAAGAATGATCCCGCCTTCC

&gt;Sequence 1330

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CTCCACTTACTTACACTATCTTAGGTAAATAAGACTTTTATTCCTAAGTG  
TGAATTTTACAGGAGGAGAAATCTGGCAGATAGATCCTCACCATCATCT

Table 2

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>Sequence 1331

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CTGTGTCATGCCCGCCTCTTCACGGGCAGGTCAATTTACTGGTTAAAAGT  
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TATGATTACATTGACAGATAACTCCAGTTTGTAACTGAACTGATGTT  
ATGGCCATAATATGTTGTTGATTGATGCAAAATGGTGATGTGTGAGTTAT  
GATCCTGTTTTTCTCACAAATGGTGGTGGAGGCCGGGAGCTTATATGTTTA  
TTTATGTATGAATGACGATAGTAAGAGATGGCATATAATCACCAGACTGA  
TCATATTGGATTCTTTGGGGAACGGAGCCGGAAGGGAGTAAACAGAGAAG  
CTTGACTCTTTATATATCTGTAATCTGCGGCTTTTTACAATGAGCATGGT  
ATTTTAATATTTTTAAATATCTGATTAAGAACTTATGAAAGAGCCGNT  
TTTGAGGTTTAGTGCTAAAATAACACTTAAATGTTATTCTTAAACAATGC  
AACTAGTCTGGGTGAAAGAGACCATAAGGCGCTTTTAAACCATCCATTGG  
ACTCAGGGAAAACCATGCTCCCAGGGGGGAATGAAATCTAGTGGTCCTTT  
AGTAAGTCTTTAAAGACCCTTCAAAAAATTTTTGTGTTCACTTTATAG  
TAACCCACACCCTCTTCCCAAGATTGCCTAAAGGGGTGGGGATGGTCGGG  
CTTTATAATATTTTCGGCAATGGAATTTGTGGATAACGTTTGAACGGGAT  
AATCTTTGGG

>Sequence 1332

ACTGGATTTTGCAGCCCTCTATTTAAAATTCCCCAGAAATTAATAAG  
GAGGCTTTGGAGGGAGGAATGCCCTAGACAAATTGTGGAGTGGGTTTGT  
TTGTTTATGGAGATGGTCTTTAAAGTCTAAATTGTCCCCGTTTTATTTT  
GCCCAATTGAAGAGGGGCTGAACTCAGCTGGGAGGGAGGGGATGGTTGTC  
AGCCTACAGCTTTTAGTTGAAACCAAGTCCATTCTGGGGCCAAGAAGCTT  
CCATTTTATAGCAAAGAGAGAAAGGCGAAAAATATACAAACCTCGTACCTC  
GGCGCGCGACCAACGCTAAGGGG

>Sequence 1333

ACTTAATTCATTCTACTTTGTGTTAACTATCTTTTTATGTGTAGGTCTCA  
TCACCCCAACCAGACTATAAATTCCTTTGTCATTATTTAAATCCATGCAT  
GGAATCCCATAGACATCAACCAATCACCATAGACAAGCCTTAGAACAT  
GTATTACAGGAAAAATAGAGTAACACATACAATAACAGAGGAAGAAC  
AATTGACATTAAGTAGAAAAAAATTAACACTCTTGGAGTCTATAGAA  
AAATGTAAAGAGAAAGAGAAATTGAAGATAATACGTCAACTTAGAAATATT  
TAGTTTGCCTGCTTCAACATCAATAATAAAGCATACTAGGAAAAAGTGGTC  
CTTTTAAAGCGATTGTTACAACCTCTCTGAGGTGCTGGTTTTTGATAAATT  
TTCTTGGCCTGAGACTGAACTTTTATTACGCGATTGGCTGGGTAAAGAGA  
ATCAATTAAGAGATTAATGCATCGCGCCATAAACAGAAAGACTGCCGTGGT  
GAGAGGTAACCTTTGTGACATTGTGCTAGGTTTTTCATATGGGGTGTGTTAA  
GGGCTGCAAAATAAATGTTTAGCATTGTAG

>Sequence 1334

GGTACAAAGTTCAACAAAGTTTGTCTTGATTAAAAAAGAAATGAA  
TATCTAATGTATAAACAACCTCAACTTAGATTTCAAAATCTTGCAATCA  
TTCACATTTGTGCTTCTTTCTACACAGCTGTCATTTACATTCCTAGGCTT  
GTATTTCACTATGTAAATGGGAATTTAATCTTTATAAATGAGGCATTTA  
TGTAATAAAAAAAAAAAGT

>Sequence 1335

ACAATAAACAGCCAAAGAAATAACCAGTTAGCACTTAAATAAGAATCT  
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TTTTAAATGACTGAGCTACAGTACC

>Sequence 1336

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TTTTCTATCATGCCCGGTAGGATATTGCCTGGGGACACCTGACAACAGA  
AAGTCTAAGGTTTTCATCTAGGATTGGGAGTTACCCCAACACCAGCAGGA  
TGCAGGAAAAAGTAACTGACCGGATGGTTGCCTCAATCTGTTGATTCTTC

Table 2

AGTGAGTTAGCTCAGATTTTGTCCAGGAACAGCTTTCAGAGCCAAAGATT  
ACGTATTGAACCTCTACCAAGGCATCTGGTGAAGTAACTCCTGGAAGG  
TGGTCATAGCAGAAATTGTTGGGAAAGTTCTCAGCATATTAAGAGAAA  
TTTTATTTCCTTCATGATCCACTCCTACAGGGAAAAATAAATGGCAAT  
GAACCCATGTATGTCAGACTCTGTAATAAACATCAGTGAGATCACAGTGT  
CAAGAAATTTACAGCTGAATTAAAGATACCCTTGCTCTCTTAAGAAAGAA  
ATAGAGTTAGAAATTGTCCCTTGCCCCGACCACCTAAGGG

>Sequence 1337

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TGGTATGCCAGTAAAGTTTCAATTTACATTTCTCTTCTGAATGAACTGA  
GCATTTTCCATTTTCTCCTAGATTCTTAGGAAGCCTTTGTATCTGCGAT  
ATAAGTTACTTTCTCCTTCTTTGTCATGTTGTTAACTTTGCACTTTCTT  
TTTAAACCTGCAGTAAATTTAAATCTTTTCATTTCAGTGCTTCTGGTTT  
TCAAATCACATACAGAAAGAATCTCCCGAGTCAGAGGGTGTGACCACAGT  
CTGTTCTGGTGCTTCTATGGCTTCATCTTTCACATTTGAATCTCTGACGT  
AGTTGGAATTTATTCTGGGCTATAAGGACCCGACTTTATTTAAGAACAA  
AATTTTTTAAACAAATGTTAACTTAACTTCCTAAAGGCAGATTATTACT  
GGGACCATGTGTGACTNGCATGTCTATGTTTGCTTAGGAACATTCTTCCA  
GAAGAATTTGCAATGCTGAAAGGATGATGACTCAGATCGGGACATCTTCA  
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>Sequence 1338

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TAAAGGTTTAAACAAAGTTGTGAAAGGTTTATAAAAAATTAATGTGTGCAA  
ACATATCGGCTAAAGTTAAAGAGGTATTATTCTGTTTTTCCATAAATTGA  
ACATTGGAATAAAAGTGCAACAGAGTTTCTAAATCATTGTTCTGCTCT  
TTAACAAAAAAATATTGTAAAGGTTATAAAAGGTTTATAAGAATCTTA  
CCTTATGGACAAACTAACTAAACTGAATGGATTTGTAAAATGCTATTAA  
ACTAAATTAAGGCTGGACGTGGTGGCTCACACCTGAATTTAGCACTTTG  
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TGCCCCATGTTGTAACACTGTTCTCTAACAATATGCGAGCGTGTGCG  
GTCGCATGATGTCCAGCTGCTTGTAGGATGCGCTAGAGAATTGCCCTAA  
CTGTTATGCTTTGATCGTGTCTTCTN

>Sequence 1339

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AAAACCTCAAACAGTAAGTCAATGTGATTATTTGTTTCATTTCAGAAGATC  
TATGGGTCCCACTGCCCCCACACGTGTCTCCTGGTCTCAACGAAGTGT  
GACCAGCTCTTCTGAAGAGGTAGGGTGAATGGCGACTGTGTTGTCAAAGT  
CTGCCTTCGTTGCTCCCATCTTCAGTGCAGCAGCAGAGCCCTGCAGCATT  
TCATCACACCCAAGTCCCTGCATATGGATCCCAACCACTTGTCTTACTT  
GGTGGCACAGACCAATTGTGATCACACCAATTGTGGGTTTGCTTTTGGTACC  
TCGGGCGGGAGCACGCTAAAGGC

>Sequence 1340

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TATCTACCTAGAGTAAATTTTGGCAATTTGCATTTTCTCAAAATAGTTT  
TTGAATTTATTGTGTAATAATTGCTCAAAATAGTCAATTTAAACAAATTC  
CTGTTTTACTATTTCCCCCTTGTCATTTAAATTTTGTATTTGTGCTTCC  
TCCCGCGT

>Sequence 1341

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ATTTAACTTCCAATTTTGGAACTATTGGATAAATAATGATGGGATTTA  
AATAAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGTAGTCTT  
CTTAGTAAAACTATTGTGACACTTCCTTCTTCTCCAAATATTCGGCCT  
GGAAAGACCTAAATACAATGCAGGATGAATCAAATTCACACATTTTTT  
TTCTACGGAAACAACCTTTCTTGCTTATTTAAACAAAACTAGTA  
TAGATT

Table 2

## &gt;Sequence 1342

CGTACTATAGGGAGTCGACCACGCGTCCGGTGGTACGTGGTGCGGGATCG  
AGATTGCGGGCTATGGCGCCGAAGGTTTTTCGTCACTACTGGGATATCCC  
CGATGGCACCAGATTGCCACCGCAAAGCCTACAGCACCACCAAGTATTGCCA  
GCGTCGCTGGCCTGACCGTCGCTGCCTACAGAGTCACACTCAATCCTCCG  
GGCACCTTCCTGAAGGAGTGGCTAACGTTGGACAATACACGTTCACTGC  
AGCTGCTGTGCGGGCCGTGTTTGGCCTCACCACCTGCATCAGCGCCCATG  
TCCGCGAGAAGCCCGACGACCCCTGAACCTTCCCTTCGTGGCCTGCGC  
CGAAGCCTGACTCTGGGAGCACGCACGCACAACCTACGGGATTGGCGCCGA  
CGCCTGCGTGTACTTTGGCATAGCGGCCTTCTGGTCAAGAATGGCCGGC  
TGGAGGGCTGGGAGGTGTTTGCAAAACCCAATGTGTGAGCCCTGTGCCTG  
CCGGGGACCTCAGCCTGCAAAATGCGTCCAGAAATAAAAACTGGGTCTGG  
GTGCGAAAAAAGGGCCGG

## &gt;Sequence 1343

CGTCTTATGGAGTCGACCCACGCGTCCGAATGCAGTGAAAGTGACACTGC  
CTGACCTTCAAGACTAGATCATCAAAGGTGCTACAGCTTCTGCTTTGGCT  
TACCCTCTCTGTCGTGGGACACTCACCCTTGGACCCAATCTCCACACTGT  
GAGAACTTCTATGCTACCTGGAGAGGCCTTCTATAGATATTTCAAGTCAAC  
AGGCCTAGTTAAAGTTTCAGCCAGCGTCAACCACCCAACATGTGGGTGAG  
TGAACCTCAAATGATTGCAGCTCCAGCCTTTGAGTCTTCCAGTTGCGG  
TCCCAGTCATTGAAACAGAGTCAAGCTGCCCGCGTGTGATTATCTGAA  
TTTCTGACCCACTGGGAGCATAATAATGATTGTTTTATGTTNAAAAA  
AAAAAATAATAAAAAAAGG

## &gt;Sequence 1344

TGTACTATAGGGAGTCGACCCACGCGTCCGTCCAGAATTTCTAGAGTGGG  
TGGGCATGATTCCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAA  
AGGAGAGGAGGGAGATGAGGTCAATTGTTGTCACTGAGTCTTCTCTCAGA  
ATCAGCGAGCCAGCTGTAGGGTGGGGGGCAGGCTCCCCATGGCAGGGTC  
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CCTCTACCCACTCTCTCCTAATCCCTACTTAAGTAGGGCTTGCCCCAC  
TTCAGAGGTTTTGGGGTTCAGGGTGCTGAGTCTTCCCTTTGCTGTGCCCCA  
GGTCATCCCAAACCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTT  
CCTTCTTTTCTTGAACACTGCCCCCTGTTCTTCACTGCCCCCATGC  
CTTAAACTCATACAGATTGTCCATCATGGGGGGCATGGGTGGAGCAAAAG  
GGCTTCTTAAACCCCGGCAGGCCAAGGCAATTGGTAAAGGAAGCACTTGC  
CCCCCTTTCTGGCCCTTCTTAATCTTTAATAAAAAACCCGGCTTCTTAT  
TTTTTAAAAAAACCTTTTGTACAAAAAAGGGG  
CGCCCCCTTTGACTTATCTTAGAGAAAAAACATTTCCAACCTTCCCCTT  
GAACCTTGAACCATAAAAGAAATCCATTTTTGGTTGTAACCTGTTATTTG  
CACTTAATAAGGGTTCCAAAATAACAATATCCTTCCCAATTTTCCATATA  
AGCCATTTTTTACTGGCTCT

## &gt;Sequence 1345

ACGCTTGAGAGCCTAGGACACGGCCCGATATTACTGTGCGTTTCACAAT  
CGGGCCCTCTACTGGGGCCAGGGAGCCAGGTACCGTCTCCTCAGCCTT  
CACCAAGGGCCCATCGGTCTTCCCCCTGGCACCTCCTCCAAGAGCACCT  
CTGGGGGACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAA  
CCGGTGACGGTGTGCTGGAACCTCAGGCGCCCTGACCAGCGCGTGCACAC  
CTTCCCGGCTGTTCTACAGGCCTTAGGACTTTACTTCTTAACAGCGTGG  
TGACCGGGCCCTCCACAACCTTTGGGCACCCCAACCTACATTTTTCACGT  
GAATTACAGGCCATCAACCCCAAAGGGGCAAGAAAGTTGTGCCCAAATT  
TTTGACCAAGATGATACATGCCACCGGGCCCGACCCCTAACCTCTGGGG  
GGGCCCCGAGTCTTCTTTTCCCCAA

## &gt;Sequence 1346

GGTACTAGATTGGGTGTGTGATTAAAGAGAAAGACAGGAGTCAAAGATAG  
TTCCAAAACCTTTTGAACAGAACTGGATGAATACTGTTTACTGAGATGG  
GGAACACTTAGAGAAAAATGCATTTGGAAAGCAGAAATACGATCAAGACT

Table 2

TCCATTTTTGATACATTAAGCTTGGTATGTTTAATTCATAGCTATATAGA  
GGTATTAAATTGGCAGGACAAAATCATAGCTAGAGATAAAAAATTAGAGT  
TCACCAGTGTAAGATGATATTTGATGGCACAGGATGGACTTTCTTCTGG  
GATTTGAGTATACATAGAGGAAAGATGTGAGGATTGAGCACCAGGGGACT  
TCAACATTGACAGGCTCAACAGAGGAGAATTCCCAAGAGGATGAGGTTCC  
ACCTTTAGGACCGCCAAAGAAGACTTCCCAGACAAGTACCTGCCCGGGCG  
GCCGCTAAAGGG

>Sequence 1347

GGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGTTTGTGTGACTT  
TATCTACCTAGAGTAATTTGGCAATTTGCATTTTTCTCAAAATAGTTTT  
TGAATTTATTTGTGTAATAATTGCTCAAAATAGTCAATTTAAACAAATTTCC  
TGTTTTACTATTTCCCCCTTGTCATTTAAATTTTTGTATTTGTGCTTCT  
CCCGCT

>Sequence 1348

GGTACAAATTACTCTGTAATATTGCTTTCTATTAAAGGGTGTGGTTTTT  
TTTTTGTGTTTTTTTTTTTTTTAGCTAGTCCAGTGGTCTTTTTGTATGT  
TGGTTCAGCTTAGTGGTCTCAACCTGGAACAACCCGTAGACCCACCTG  
GGGAGCTCTTAAATTATCAGTGCCTACCCACCTTCCAAGATTCTGATT  
TAAATCCTGTAGTGTTTTAAAGGCACCCAGGTGATTGTAATGTACCTGC  
CCGGGCGGCCGCTAAAGGG

>Sequence 1349

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GTTT  
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TCCCCCAATGGGCACGGGGTTTAATCCCAAATTTTTAATTTTTGGGA  
AAAAAAAAAAAAATACCATTTTAAAAACCCAGGGGGGGTTTTTTTTTTA  
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TTGGGCCAAAAAAATCCCCCCTTTTTTTCCCTTTTTAAAAAACGGAAG  
TGGGGCCTGCTTTTAATTCACCTTTTAAAAAAATCTCGAGGGTTTC  
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AAAAAAAAGGTTTTTTTTTTGTAGGGCCCCACCCAGTTGGTGGGAAA  
AGCCCTTTCCCAATTTTTTTCCCTGCGGGGCAAAAGGTTTTTTAAAA  
AAAAAAATTTTTTTTAAATCTTTTAAAAATTTGGTGGTTTTGAAATTTAA  
CAAACCGTTTGTAGCCCCCTTGTAATTTGTTCCAAACCCAAAAAAGG  
TTTCTCCCCGATTTCTTTGGCGGGAACCACTTAAGGGGTATATTCCCC  
AATCTGGGGGGGTTTTATATAAAATTCATTGTTAACACAATTTGGGAAA  
ATAGGAAATAATTG

>Sequence 1350

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AAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCAA  
GGG

>Sequence 1351

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GGGGTCAGTAGGAAAAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGCA  
CAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGAAAAG  
GCCCGGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGGAACTTGA  
AATTTTATATTTAATCTTCTCATTTTTAAGTGTGGCAATGTATTGAAGA  
CTTTGAAGCCTCTCTGCTGGTCAAACAAGATGTATCTGTAGGCTGGATT  
AGTCCACAGCTGGCCAGTTTGAAAACTGAATCCTGCTAGCCTTAATTTAA  
ATTTTTTAAATTTAATTTGCTTTGATTCTGCACTCCTGCTCAAAAAA  
TCTTCAATGGCTCCCACTGTCTGCAAGGTAAATCCAACTTTGTCAAC  
AGTCCTTCAAGCAACCCATGACTATATCCNGACCCCAACCATATTTCTA  
CCTTAATATCAGTCTCCATCTTTCCACCGCACCAGAATGATAGTTGAAAT  
GTACCTNGGNCGCGACCACTTAAGGC



Table 2

## &gt;Sequence 1352

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTACAGTTATACTGTGG  
AAAGTTATTCAAATTTCAAATTTATTACAGTGTTGAAAAGCACACAAC  
AGAAGATCTTCATTTATGCAACAAGTCAATCATTTGCAGTATGTATGGAA  
AATAAAAATCTAAGGTAAGTCAAACATACAACTCTACCTCTTGCTTTCT  
CCATTAGAATATACACATTGGAAATCTAAGTTCCAAACAGTTCCTCTCTA  
CTGAAGATAGTGAAATTTAGTGCAAGCCCCCTAATTACCAATTTTTTGGG  
TGCTTACA

## &gt;Sequence 1353

ACATTGGTTTGATCTGGAAAGGCAGGACAACCCAAAGCGGGCTGGGGACA  
GTTCCAAGTTATAGGAGGTTTTCCAATTGGCAGTTCGTTGAAAGAGTTTA  
TCTTAAGACCTGGAATCAATACAAGGGAGTGTGTCTGGGTAAAAATAAAG  
GGGTTGTGGAGATCAAGGTTCTTATTAGGCAGATGAAGCCTCCAGGTAGC  
AGGCTTCAGAGAGAATAGATTGTAATGTTTCTTATCAGACTTAAAAAGG  
TCCCAGACTCCTAGTTAATTTTCTAGTGGATCAGGAAAAAGACCTGGACA  
GGGAAGAGGG

## &gt;Sequence 1354

GGTACTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTAATTTAAAAAAGGAATTTTT  
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TTAGGAAAGGGGGGAAAAAATAAAAAAATTTTTTTTTTTT  
TTTTAAAAAATTTTATTTGGGGGGGGGTATAAAAAGAAAAATTTAA  
GAAATGGGG

## &gt;Sequence 1355

GGTACAGAACCTGCCTGAGTATGACCTCTCCACCTTATAGTTTATGAATG  
TCTTGTTGTGAAAGTGACTATAACCCAACTTTTTTTTTTAAAGAGGA  
TTTGGAAGTTGTATGGATTTTTGTTATCTTCACTTTACTGCATAGGAAA  
CAATCTACCTCATCATTTAAATGACATGGGTGTCGGTTTTGTAGATCTT  
TGGTTTTTTGTCAGGTTTAATTTCAAGTTAACAAAATGTAAACATGACA  
TTCCCTGCAGATATTGTTGTATACCAGTATGGTTTCTTCTTTCTTTAA  
ATGTTTTTGGCCATCAAGTAGN

## &gt;Sequence 1356

CACTTTTTTTTTTTTTTTTTTTTTTTGAGTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTACCCCAA  
AAAAAATTTTTTACCCAAATTTCCCTTATCCCCCTTTCCCCCTTT  
TTAAAAACCCCCAGGTTTTTTTTTAACCCCCCTTCCCCGTTAAGCCC  
CCTAAACCTTTCCCTGGCCCCCTTTTTTAAAAAAGCCCCCCCC  
CCCCCCCCAAAAAATTTTTTTTTTTCCCAAAAGGCCCTT

## &gt;Sequence 1357

ACAACACTTTAAAAAGTGAATTTTAAGCTATGTGAATATCTCAATAAAAA  
CATTTTTTAAATAAAAAACAATTCCCAAAGGCCTGGAAATTCAGGAACATA  
ATTCAAAATAATTTATGGATCAAAAAATAAATCATATAAAGATCTGAGAA  
CTACAATGTAAAAATATAGAAAAAAGTCATAACAATATTAGAAAAAATTT  
TGAGCTGGATAACAAAAATAGTACC

## &gt;Sequence 1358

GGTACTTACATGGAAATAAGTGTTAAGAAAAGGA

## &gt;Sequence 1359

GGTACAAAGAAAAAGCTAAGGAACGGTATGTATATTAATCCCTTTATTAA  
AAATGTAAAAAGCCAAAGCAAGATAGACGCAGATATGTGCCAAATATG  
TATTTTTTTTCTGGAACAAATCAAGAAATGTAATAACAGTTACAGT  
GAGAGGAGCCTTGACATCTCTTCTAACTATTTGATATCATTGTGATA  
CTAACGATGT

## &gt;Sequence 1360

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GTTTTATGAGTGGGGTGGATTGTAGGTTGAGCAGAACTAATGGGAGAGGT

Table 2

GCTGGCTAGAGAAAGTTAAAAATTTCTGTTAGCTTTGCATTGAGCTTTTT  
AATATCATTTGTTTCATTTACCCAGTTCAGAGGATTGGGGGTGATGGGCAC  
AACAGAAATGATGGAATATAGGCCAAATGTTACAAATAGATAAAATTACC  
TGACCAAGTGAAGTGTTCTCAGTCGCCATGGAGCTCAGATTGGACTCC  
CAAAAAAAAAAAAAAAAAAAGTGN

>Sequence 1361

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TGTCTCCCTAAAACCTTAGTCTCTGTCCTATTTACTTTGTTTATAAGACTG  
TGACCTAACTTCCCATGGCCAATTCAATCGACTAGGTTATCTTTACTCCA  
ATGGACCCAGGCCCTTTCCCAAGTCAATCCATGTCCAACCCCTTCATCTCCA  
GCGTGATCACTCAACTCTTCAACTTGCCTGCTTGCTGCAGGTTTAAACCA  
CACCACCATNCTGTGCTTTCCCCCTAATCGCCCATGATGCCCCCAGTAA  
AAATAAACTAAACCCACTTGAAGTGCC

>Sequence 1362

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CATGTGTGGGGCTTTTTTTTTTTTTTGATAGTTATTTGTTTTTTATTTTA  
AAAATTTATTTTGCCAACCCAGTAGAGAACAGCTGAGCATCTTCTCATGT  
ATTTATTGGCCATTTGCATTTCTGCTGCTTATTGGCCATGTATTTATCTG  
CCATTTGCCGCTGCTGTGAAATGTCTTACATTATTTGCCCATTTTTCTA  
GTGATAAAACACTGAAGCACATTTTTAAAGACTTCTGATGATTTTTATTG  
TCAGAT

>Sequence 1363

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GTAAAAAGCATTTGTAAATTGTATACTGCAGTGTGCTCTACATGGCATTGG  
ACAGGACATAATGTACAACATAAAAAGTGCAACTTGTACACTTTACATAT  
CGATGAGTGAATCGGCAACTACGACCAATTTTTGTCTCAAGTCAAAATAC  
CAAGCACTATTGCACAGTCTACTGGATTTATGTATATATGACATATCTGG  
ATACTGCATGCACCACATTATTGGCGGCCTTTTAGCTAAGCTGTAGAGTG  
CTATTGTGCGACCGCTTAGTGATACTATTCTCTGGT

>Sequence 1364

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AGCTACCTTGATATGTGGTCTGTCACTGACTAAAACCTTTGCTACACAGC  
GTATGACCCTACTATTCAGCCTTGAGAAGATGGAAATGCTGTCAATTTGCA  
ACAATATGGATGAACCTGGAGGACATTAAATTAAGTGAATACGCCAGGC  
ACAGAACGACAAGTAACACATAATCTCACTTATATGTAGAATCTAACAAA  
GCTGAACTCATAGATGCAGACTTAGATGATCCTTACCATGGGCTGTGAGG  
AGGATTATGAGGGAGGCAGAG

>Sequence 1365

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CAGGATACATGTGCAGAGTATGCAGGTTTGTTACAGGTATACATGTGCCA  
TGGTGGTTTGCTGCACCCATCAACCCATCACCTAGGTTTTAAGCCCCACA  
TGCATTAGGTATTTGTTCTAATGCTCTCCCTCCCTTAAACAGCAGTTTTT  
CTATAGGTCAAAACAAATTTGGGAACCAAGAAATGTCTACTGTCTTTATAT  
AAATGATCATTACGATTTGGGAGGAGGTTTTTTTTGGTCACTTTGATAT  
GATTAGTCACTAAAGCATGATCT

>Sequence 1366

ACCACAACGTTTCTACTCTATTGTGTAAGCTTTAAATACAAAAATACCAC  
AACCCTCCCGGACTCCTCCATTATTTTCAGTAATACTGGCTGCCCTAGTT  
TTTCAGGATACATCATGCAAATAAGTTCTTTTATTTTCAAATTAATTTA  
TTCTAAAGTATCTTTAATTTTCTTTTTTGGTTATACAGCTTATAGAATA  
AACAAAGTCACAAGAATCTTCATTTGTTTCTAAAGTATATAATTCTACAAA  
AGTTGTTTTACTCAATGTGAATTAAAATTTGCAAGTCTAAAAAAATAAAA  
AAATTTTAAAAAGTAAAAAAA

>Sequence 1367

ACAATATATTATGAAGCATGACCACTTTATTTTGAACTTAGCAATTGTA  
TTGCTGGGGTTTATTGTATCTGTAGCATGTCACTGATTATTTTCAGTTAGT

Table 2

TTTATAATGATTTTTTAAAAAACATATCTATTTGGAATAAGATACAGCAAC  
AATCATTGCTATTGACTTGTTC AACCCCTTAGTTACACTGTATGATCAAC  
ATATAACAAGATACAGTGAATGGCCCATACAGTATATTACTGTTGTGTG  
ATGATTGGCTTTGGAAGCAGTTTGATTTTGAAATGCTTTGATATTCTAAT  
TGACATGGAACAAG

>Sequence 1368

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CTTTTATCACAATCAACTTTTTCTTTGTATCCCTATTTCAATGAGCAGTC  
AGTCTCAAGAGGTTACTGCATTTCAAGTTCTAACTAGACATTTGTAAGTGT  
GATCACACTACGGGAATCTCTGTGGTATATACCTGGGGCCATTCTAGGCT  
CTTTCAAGTGACTTTTGGAAATCAACCTTTTTTATTTGGGGGGGAGGATG  
GGAAAAAGAGCTGAGAGTTTATGCTGAAATGGATNTATAGAATTTTGGGA  
AATCTATTTTGTGTTTGTTCGTTTTTTTAACTGGTCATTCTT

>Sequence 1369

GGTACAGCTTTCTCTGCCTCACGTTTCAAGCTTAATGCATCATCTTAATT  
CATCTTTTCGACATCTATTTCTACTACATGCTGCTCTCTTTCTCTATCTTA  
CATCTCCCAGAATGTTTTATTTCAACAAATTGCTAATCTGTGCCAGGCAT  
TGTTATTAGCAAAATGATAAGCCCTGCATGTAGCAAAGTTCCTGCCTTCA  
CTGCATATGCATTAACAGCTCTGATTAGTCCACTTAAAAACCATTTGTTCC  
CGTCATGCAGAACTCCATTGCCAAGCCCCACAACCCAGCCAGTAGGTT  
AGCAAGCTCCCTGAAGCAAGGTAAACATGTTG

>Sequence 1370

GGTACTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTAATTTTATATATTTTTTTTTTTTTT  
TTTTACCCCGGAAAAAAAAAAAAAGGCCCAAAAAAAAAAGGGGCTTTTATGGCA  
CAATAAAAAAACCAAGGGGGGTCTAAAGGGTAATCGGGCATTTTTTTTG  
GGGGGCCGGGAACTTTAAATCTATTTAAAGCCGGGAAAAAAAAAGTCTT  
TTTTAGAAAAAAAAAACCCCTCAAAAATTCCCCGGATCCCGGTAAAAAA  
GGGGGGGGATGGAAA

>Sequence 1371

ACTGTCGTTTCCTTCCTACCTCGTCCTCACCCACCCCGAGTGAACTTT  
TCGAGTGTGAACCTTACTTTTTTCCCGTTCTCCTCAAGGCAGTTTGAACG  
ACACAGGTTTGGAAGGAATAGTTAACTCTCCAGTATTATTGGAACATCTG  
GACACCACCAACAAAAATCTTAGAAAAAGGGTCATTTAAGGCCTATAAAA  
AGTGCCACCTTTCCAGAATTAATTCAGAGAGAAAAATCTTATCTGCCTC  
CTGGCAGCTACAGCGCAGAAAGTACC

>Sequence 1372

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TTTTTTTTTTTATATTTTTTTTTTTTTTTTTTTTAAAAAACCCATGTACCC  
GGGCACAGAAGGTCCAGCATCCTTTGAAACATGAGTTTTTACCAACAAAA  
GCAAACTTTACCCCAACACCTCATCTTTAACAGCAGGAAGGGAAACAAC  
CCAACCCCTTCACCTAAGAAAAATTTTTTTCCCAAAACCAAGGACCCA  
TGCCCCCTCAAGGGTTCCACAACCTTGAAACACAAAGATTCCACAACCCGT  
GCTTTCCTTTGCCCTGGCCGACGTTATAAAAG

>Sequence 1373

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>Sequence 1374

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Table 2

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>Sequence 1375

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>Sequence 1376

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>Sequence 1377

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>Sequence 1378

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>Sequence 1379

Table 2

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>Sequence 1380

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>Sequence 1381

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>Sequence 1383

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Table 2

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Table 2

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Table 2

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Table 2

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>Sequence 1398

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>Sequence 1399

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Table 2

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ACTTCAACATAAGTAATTTGTCATCTTTGTCCTTTAGTTTTTGTGATTTT  
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CTTCAACTAGCCACCTTATTTCTGTTCTAGAGTTTGAATTTCTTAACTCC  
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CC  
>Sequence 1405  
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>Sequence 1406  
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CAGAGTAGACAAATTCATAAAAAACAGAAAGTAGAATAGAGGTTTCCAGGG  
ACTGGGAGTTACTTGATATAGAGTTTCAATTTTGCAAGATAAAAGAGTTT  
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AATTTAAAAAAAATTTTAAATTAAGGAATTAATAAATTTACAAAATACT  
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AGCCGGATTTACACTACCTATAG  
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AGCTCCTCATTGAGGGATAGTTTTCTTTGATAAGAAACCTGGAGTCCATT  
TACTCTGACCTCTCTTAAATCTATATCCAGAGCCACTAGCCCAGGAAAA  
ACTTGGGTGACCGTAATTTCTCTCTCTCTGCTGTCTTTTGCTCTTACG  
CCCCACCCCAACTCCCCCTTAAATTTTACAGGCTTATGACAGTTTGTATGT  
GCTCAGCCAATGAGCAGAAAACCTGGAAAGAATTTCTGGACTTTAGCCCA  
CCAGTTTGTCTGTTGACTAACCTGCTGAGAGCTAAAATTGGCACCCATT  
GCCCCGTGCCTTCAGGCAGTCTCTGGGGCAGAGTATGCCACCATCCGAA  
TATCAGGCACTGAGTGGGATGTGGGTGATGCTCACATGACTGGCTAGAGC  
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Table 2

AGCN

&gt;Sequence 1408

GGTACCCCTTTATAGGAACCCTCAAATTAATAAAAAAATGTCTTTTAAATGGA  
TGAGAGGGAACCACTATAACATGAGTCCAAGCCCAGAAGACTTCTGTCTA  
TACAATATTTTTTTTTTAATTTTGGAGATAAAAGCTTTAAGAAACTTTTIG  
AGTTAATTATACTCATAAAATGAGTTTCTTTAATAAATTAATTTTATTG  
TGTAATAATGTATTATTACATAAAATGTGTTTTTGAATCAATGCAGTTTGG  
GGATGAATATAATTAATAATATGTTTAATAACTTAGAATTCAACTAATAAA  
AATTTAGCCACACTTACAAGGGGGAGGAAGTCCCTAGTTTAAATGTATA  
ACTGAGTGGTAGATCAGT

&gt;Sequence 1409

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GCTTGTTAATGCAGTGAGGATTGTAGCACTGTCCACTGAGTCTCTGTGCA  
ACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGA  
CGCTGGATAGTCGTCTGAGTATCTTCAGTGCCCAAGGCGACGGCTTTGGT  
TTGGGTACAGGATGGTGTGGTTGGCCAAGTGCTGCCTAATAGTTTTAGG  
AGAGGATACTTATTTGCTGCTGCATGATCAACACTGGTAGATTATGGTTT  
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&gt;Sequence 1410

GGTACGAGCCTATAATCTCACCTACTCGGGAGGCTGAGGCAGGAGAATTG  
CTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCCGGGATCATGCCACTGCA  
CTCCAGCCTGGGCAACAGAGCGAGACTCCATCTTAAAAAAAAAAAAAAAAA  
AAAAAAAAAAGAGAGAGAGAGAAGGAGGGGAGAAAGTGAAGTCATAAGTGT  
AGACCACTCCTCTGAGGGAGAATCCACCCACCTTCTCCTAGCTTCTG  
GTGGTTGCTGGCAATCTTTGGCGTTCCCTAGCTTGAGATGCAGCACTCC  
AATCCCTGCTTTTCATCTTCTTAGGGTGGTCTCCCTATGT

&gt;Sequence 1411

GGTACTTTTTTTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTAAGGGAGTAAGTTTTTTAATCCACTTAAAAATACAAGAGCA  
CAAATCCACATTTATTTATTGATTTTTCGTTAGTTTAAATCCTTGAGGGG  
TACTTTTTTTTTTTTTTTTTTTTTTGGGGGAAGATAGAAAATGTGGGGC  
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AAATGTTTTGATGTTAATACTACCAACATTAGTTCTTTTAGGGGGTGAAA  
GATTGCCCAATGGGGGGGAGGAGATCAATTTTTTGGGGGGGATTTTTG  
AGGGGGGGGTGATCAGCAACAACCTCTTTAATAATTGGCGGCTTTTATGA  
CGCCTACTGGGGGTGATAATTTCTACTTTTTCTACGAGGTTTTTTTACT  
AGCGAAAAAAGAGTTGCTCTTTTTTGGACCAACAAATTAATCAACGAGGT  
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CGGGCGGT

&gt;Sequence 1412

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AAAGAAAGTTGCTTTTGAAATCCAGCCTTCTTTGGGGGTGCAGGAACCT  
ACCGCTGGGACCATCCTGCTTTTTTCTTAGGGAAAAAATACCCCTTTT  
GGGTAGGAAGGCCCCCAGAAGAAAAGGAAAAATTTAAATCAAAGCCCCC  
AAGAAAAATCCCCCACAAGTCAATTGGCCCTTTTTTGGGGAAAAA  
GCCCCCCCCAAGGCCCAAGT

&gt;Sequence 1413

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TTT  
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AGGCCCTGAAATGAACCAAAAAAATTTTTTTTTTTTTTTTACCACCA  
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Table 2

AATCCCCTCCACAGACACACATTGGACAAAAATAGAAAAAAACTGTTTC  
TGAGAAAAAAATAATTGCCCGAAAAACTCAAACAAAAAAACCCGAA  
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ATTGCGGTAGCCCAACCCGACCTTTTTAAAAAGAGAAACACTATTCTGCC  
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GGCCCCCTCN

>Sequence 1414

GGTACGCGGTCAATTA

>Sequence 1415

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TTCAACCCATCTGACTCATCTGTTCTCTCCAGACTCTTCTTGATCTT  
TATTTTTTTAATTTACCAGAGAAGAGCAAGCACGTGAGCAGTGAATAACT  
TGCAAGGATGCAGACTTTTTTATTTGCGATGCTACTTTTATAAAAACAA  
ACCGTAACATAAATAACTCTTTAATGAAACTCAGAAAAATATTAATCT  
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GGCATATGAATACCTTCTATCACTTAGTAATTAATTTGAACAGAGATGTTA  
TTAGGGTCTTAGTATCACTCCATCCTTCCCTCCATCTTTATACAAAA  
AGAACATACAGAAATTTAACAAAGATATGACTTACTCATATGTTTTAT  
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>Sequence 1416

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TTGTGAGACTGAGCCCTCTCTCAGCCTGTGGGATCTAATGCTATCTCCAG  
GTAGATAGCATGAGAATTGAATTGGATTAGAAGGTGCTCAGCTGGTGGTA  
TCTTCTGCAGAACTGATTGCTTCTTGTGGTGGGAGAAATCCCCACACA  
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AACTAATGATTTACCTTTCATTGTAAGGTTATCATGCTCAAGTATTAATG  
TAGGAAGGCTNTTTTGATGCAAAGTGTGTGTGTGTGTGTGTATATA  
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GTGAATTN

>Sequence 1417

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GGTGTGGTATTGAGCACTGTAGTCCAAGCTACTCGGGAGACCGAGGCAGG  
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>Sequence 1418

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CAGGAGGGAGCAAATCCAGGAATGGGGTGGCTCCCCAGGGCCGAGATCCA  
GACCTCATTAACAGGATTTGGTCACGGCCCACTGGATAGTGGGGAAGCC  
TGTGGGGTTGTCCATGTGGTGGCTGGCAAGCAGGGGCTGCTTTCTGGGG  
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Table 2

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TTTCCCTTTTTTTTTTTTGGCTTGCAAAAAA

>Sequence 1419

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TGTAAGAAATTTGTATGTGGTAAATTTTACCTAATTTAAAATTGTTGTTT  
CATAATTTTTTAAAAAGAAAAATTACAGAAATAAGACTTGGGGGGTGGG  
GGTTGAAAAGTGGTGAAGAACTAAACAAGTAGAAGAGGATTTCTAAAGC  
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AAAGAAATTTGTTTATACGATATTCTAAAAATTAATGTTGCTGTCAGGGA  
TGACATGATACAGGACAGAGTCTGTGTAAACAACAAAGTTTCTTAAAG  
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>Sequence 1420

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GTGTGTATAATGTGACAGAGACTTTATATGGCCCTCA

>Sequence 1421

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TCTTCAAAACCACAGAGAGTTTCATGAGCCAGTCTTGCCCATCTCCAATCA  
GGGAAGTCTTAAAATAAAAACTTAGCAATCTCCTTGGCCCAAACTTCA  
CCCCATCTTGAAGGGAGGGGAGAGAGAATGTTCTGATCTATATCTGATG  
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GAGAGAGGGCTGTTACTCAGACTCCCTCCAACAGAATACCAGAAACAGG  
CAGGCAGCTCAGGTGTATGTAAGGATGTGAGGCCAAGAAACCAGCCCTCA  
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CAGAAATGGATTCAATTGCAGGCTCAGTTGTTTGTATTATGTGAATGAAGT  
GAACGTAACCAAGCACCAAGAGAGCCCTAAAGACACAGTAGACCTCCTGT  
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>Sequence 1422

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CCCAGGGATGAGTAATCGGAGGGGAGCAGCAAGCACAGGGAAAAGATGAC  
TGGGAGTCAAGAACTTGGGGTTCAAGTCCAGCTCTGCCCTGTCAATTTT  
CCTCACCTGTAAACTGGATCAGAAATCTTACAAAAACAAAAACAAAAA  
ACCTCTTCAGTATTTCCCTCAAACAGGATCCTCCTCACATCTGTATTTAT  
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GTGTGTGTACC

>Sequence 1423

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CAGAGGTCAATTTCTTATAATGCTCAGCCTCAGAGATAGAACACTGCCCG  
CGTACTCTGGTTCGGGTTCAAGTGAGAGGCTTTTCATGAAAATCTTAGGA  
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TCAACTGAAGTAATCCGGAGCTGAAACTGAATTGGGGCGGATTTTCAAATG  
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Table 2

GGGGTTCTCTACATGCGGTATGGTTTGTCTTGGCCCGAACACCCTAGGC  
GAT

>Sequence 1424

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AAAAAAAACCTAAAAAATTTTAAAAAATTTTAAAAACAAAATTGTTAA  
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CAAAAAAAACTCTATCCAAAAATTTAAATTTTAAAAAAAATTTAAAAA  
AAAAGCTCCTTAAAAAAGGGGCTTAAAAAAAACAATGTGAAAAAAAAT  
CCATTTTATACAAAATAAGTTTTTGTAAAAACATAACTTGAACATAAAA  
AAAACCTGGAATATTTAAAAATAAAAAAATTTAAAGTTCTCAAATAAATC  
CAAAAAAAAATTTAAAAAATGTACAAAAAAAAGTTCTTTGTCCAA  
ACACAACTAAAGGCAAAAAATTTAAAAAATATCGGCAGTAACATAAGAA  
GACCAAGTCTGAAAAAAAATCGGAAAAAAAATCAATTCCTC  
TTTGA AAAAATAATCTCCCCAAAAATCAACAAAAAACTACGCG  
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ACAATAATGTTCCCTAACCAAAA

>Sequence 1425

GGTACTACCATCTTAACAATATTAAGTCTTCTGATCCATGGCCACCAAAT  
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AATTGTTTTCATGCTATTGTAAATGGGATTGCTTTCTTTTCTTTTCTTT  
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AGTGCAATCTTGGCTCACTGCAACCTACACCTCCTGGGCTCAAGCGGTCC  
TCCTGCCTCAGCCTCCCTAGCAGTTGGGACTACAGGCACATGTCACCCAA  
AAAAAATAATNTTGTATTTTTGTAGAGACAGGGTTTCACCATGTCCGG  
CTAGGAAGGTCTTGATCTCTTGACCTCGTGATCTGCCAGCTCGGCCTTC  
CAAAGTGTTAGGATTACAGGCGTGAGCAGTTTTCTTTTGGTATTGCTTTA  
GAAATGGAATTTCCCTCTGCTGCCAAGCGGGAATGCAAGGTGTGAACCT  
AACTCACTGAACCTTCACCCCTCTGGGTCAAGTGAATCTTTTGGCTTAGA  
CCTCCCAATACCTGGGATTACAGGTATGCGCCACCTTGACAGCTAATTT  
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TGATTTCCAACCTTC

>Sequence 1426

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ACCCCGCGT

>Sequence 1427

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AAGTTTACAATCCATTTTAAAAAATGAATGAATTAAGTATCTCCGAAACA  
AACTGGCAATTGCTCTGAAGACAAGTTTAGCAATTTCCGTGAAATAATTC  
TCTGGCTTCGGCCAAGGCCACTGATTGATTTCTAAGCAAAAACAACAATC  
CCGTCAGGATCAGGAATGATGGCAGAGTGGCCCTGTTGGCTTTGTAGCTA  
AATTGTGCTCAGCCAGAGAAGAACCACGACCAACAGAGCCCTAAACTGAA  
GTCCCAATTCTGTCTACTCTACCGTGCTGCACAAAACCTAGTACC

>Sequence 1428

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AGACAAGGTAATATAGCACTGTGAAGGATGTGTCTTTCTTCAAATGGAGC  
CATGAGAGATGGTGGTTTTTAAAGTTGATTTGATGTTGGATGTAGTAAGT  
CCTGTGGGAGAGAATTTTTTAAATAAAAAATACTGTTTAAAAGTGTCTC  
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CCAGCTACACTTTCCAGTTTGAAATAATGAACAAATCCTTTTGCTGACA

**Table 2**

GACCAAACCTTAGTTCCTGTGGGCAAATGAGGGGTTTTTTCCCCCAACA  
ATGAACAATTTTTTTGAAAAAGTCTCTCAAAGATGTTCTTATTGGAATAA  
CCCTTCTTAAACCCAAACAGCCTAAATGATTGGATAAATGTTCCACAAGA  
TCAAAGAGCCACCCAGGAATTTTACAGCTGGACTTCATTACTTGATTACT  
TTGCAAAAATAGAAGCCAAAGCTTGACTTAACTGGTAATAGACTTAAAT  
TTGAGTTTGCTCTTGGTGGGGTGCTTATCCCCTTTTACATGACAGAAGT  
GTTGGAGTAATTTTATGTGGCCTGGGTTGGATGGCTTTTTTTTCTCACTA  
TCCAATAATTTTAG

Table 3

&gt;1.1

GCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAA  
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ACATGAAAATTTAAATATTTAGTTTGGGATTGAGACTTCTATTAGGCCT  
CTGTATTTCTTTCTAGTTTTTCCCTACCATTCCTTAATCGGAGTATCCA  
AGCCCAATCACCTGTATCCTATGTCCTAAAGCATCTTGAATTGGTTGTT  
CATGTTTTTCTTCATGTGGAGTGTCTTTTGCCACCCTCTTAGCCTATCT  
GATCCCACTTAGCCTCTGAGGTTCTGTTAAGTTCTCACCTTCTTTATGAA  
TTTTCCCAGCCATAATGATCTTTTAACTCTTTGAGCTTTACTATTT  
ATACTCTTTACCTAACCAACTAAATGGTTTTT

&gt;2.1

GGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATC  
CGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGA  
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AGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAACCATTCCTTG  
CTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCA  
GAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAAT  
TTGGAATCTAACTCAGCGGAATTGTATCCGT

&gt;3.1

GGAGAGGAGTCCTTTACTTAGAGTCAAGCTGAAGGAGCATCACAACCCCA  
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GATAGGATGAAATAGTAATTTATTGATTACTATATCTACTATATGTCCGT  
AAGATAGCAGGGTCTTTATACTCGGAATCTCATTGATCCTCATAGTTTT  
TATTGGTTATTATTATCCTCATTTTACAGATACAGAACTGAGGCTTCAG  
AGAGGCTGTGTAATCAAGAGTTTGTATGCCTTTCATCTGAGGAGGTTGAG  
GACAATCCCAAGTTAGAAAAATAAATGTCTTTAGCATTATTTTCTTAA  
TGTTTAGAATATTAATAAGTTACTCAGATAATCTATTGGAATTTCTTCAT  
GGCAGGGGGAA

&gt;4.1

GAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTCGTAGCTAC  
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TCTTGACT

&gt;4.2

CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAAC  
AATTATAAACAGTCTCTGCCTTAAAGGAGCTTATAGTCTAGTTAAGAAAC  
CAGA

&gt;5.1

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TGATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATT  
GCCTTTCCTACCGGACTCTCCTTTGCAGCTGCCTTGGTGATCTCATCAG  
TCAGCATGTCTCTAACCCAGAGCCAGGCTGTGCTTTTTTTGT

&gt;6.1

ACCTATGACCATCTTACATTATTTTTATGGGTGGGGGGCATTGGCTGTGG  
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TGGCATCCCCATTCTGGCACTCCTCCTCTAGGTCTCACCTACACGCTGGT  
TTGTGGGCGGAGGGGCAGGTTGGTGCCTGGGGTGTCCGGGCACTGGCTGT  
GCATGCCTTCTTCTCTTCTGTCTCTTGGCCACCTTTTCCAAAAAGTCAC  
CAGTGACCAATTCTCCAGTGTTTCTTTGGGACTCAATGCCTTGGGCTTG  
GCATTGGGTAAAGCCGACTGGCCAGTTTCATTCTGACCAGCTCTATAGTA  
GTCCGGTGTGGACCTCTGCCCTCCCTGCTCTGCGGAAGCTTCTCAGCCT  
TTGCTTCTCACTATTTACTATTTGCGGGGCTGGGGGTAC

&gt;7.1

CGCGGTGGCGGCCAGGTACGGATCAATTCGCTGAGTTAGATTCCAAATT  
CTAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGG  
ATGCTTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAA



Table 3

GGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTT  
ATATATTCTCGTGGGACCTCAAAAGGATGTAAAGCAGGATCATAGTTTCT  
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TCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

&gt;8.1

GCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGT  
CCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTG  
CTTTACATCCTTTTGGGTCCCACGAGAATATATAAGAGCTTTAAATGCT  
ACCAAACCTGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGG  
TCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTA  
CTGTCTTTCTGGGGCGTGATGGAGAGGTTAGAATTTGGAATCTAACT  
CAGCGGAATTGTATCCGT

&gt;9.1

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TGTGGCAGGCCCTATGCCAGGGAGAAAGTAAGATTGGAAAAGAGCTTACC  
AAGGAGGTGGCATTGCACTGTGCTTAAGGGGCAAGAAAAACGTCTTCCA  
ATCAGGAGCCACAAATGCTTGGCTGAAGTGCTACTGCTCTTTCATCCTGG  
AGCTGGAACAGACGTCACCACTC

&gt;10.1

TGGCGGCCGAACATCCATGTTTTAACTAGCACAGACAAAACCTATGTGTT  
ACTATCAAAATAAAATTTAGAAAAACAATTTTCTTATAAAATTTTCTGTT  
TGATTTGGACTACATAAACTGGCTTTAAATTTGAGAAATATGCCCTAAA  
ACCATAAGGAAAAAGCCAACAGAAAGAACAAAAAGATCACAGCAATTAGG  
CCGTTCTATTCAATTTTCCCATGAGCTAAAAATCACATTCTTCACAAAGT  
AAATTACGCCCTGTTTTTATTCTTAAGCACTAGGGTTAGGATTGTGATC  
TGAGCTTTACTAAATCGGAAAAGAAAATCTCAATTATAGAACATTTAGTT  
TATTTATACCTTAATGCCCGGAGAGGTAATATTTTACTTTAAAATGCATA  
ACCCATGTGACATGCTAGGTCTTCCAAAAAC

&gt;11.1

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CGTGATGTGGAGGAGGCAGAGCTCAGATAGAAAAGGAGGGAGTGACACTC  
AAGCTGCAAGCAGTGACAGTGCCCAGGGCTCTGATGTGTCTCTCACAG

&gt;12.1

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&gt;13.1

ATTGCGTCCGAGGTACCAGGTGTCATTCTGCAGCAGGATTTAACAGATG  
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&gt;14.1

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&gt;15.1

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Table 3

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>22.1  
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>23.1

Table 3

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GGT

&gt;24.1

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&gt;25.1

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&gt;26.1

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ATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATCATAGTTTCTTGA  
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GCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

&gt;27.1

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&gt;28.1

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CA

&gt;28.2

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CAGA

&gt;29.1

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&gt;29.2

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&gt;30.1

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CA

&gt;30.2

Table 3

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>31.1

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>31.2

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>32.1

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GCT

>33.1

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>34.1

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>35.1

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>36.1

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Table 3

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>37.1  
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>42.1  
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>43.1  
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Table 3

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Table 3

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Table 3

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AACCTCAGTGCTGCAGCCTCAAAGAATTGACTTTAACCCACAGCCTGTGT  
GCACTTAGAAGCGGATGCATTAC  
>62.1  
GGCGGCCGCGCCGGCAGGACAATGATGGCTGTCAACTTCGTTTGTAAAA  
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CCTGTGCAGTAACAACGTAGGCTCGGAGGATGGGT  
>63.1  
TGAGTGAGCCTAACTCACATTTAATTTGCGTTTGGCGCCTCACTGCCCGC  
TTTTCCAGTTC  
>63.2  
AGGAGGGCGGGTTTTTGCCGTATTTGGGGCGGCTCTTTCCCGCCTTCCTTC  
GGCCTTCAACTTGACTTCGGCTTGC  
>65.1  
TTTTTTTTTTTTTTTTTTGGAGGAGATGGACAGTGTCACTCTCCTGATAA  
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CTGAGAATACGAGCGGGCATGACACTTACTCACGTCAATCACCAT  
>66.1  
GCGGTGGCGGCTGCCCGGGCAGGACCGCGGAAATCCCCTAACTTCCTTGC  
TATCTTCCCATCCCATATTTAGGTTAGATAGAGAAGTGTGTATGTGTGTG  
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TGGAAAAATACATCAATTAGGACAACATGACAATTTCAATAGACTCCTAT  
CAAAGAGTATCAGTTCACAGTTTTTATAGATACTAGTATAAAATTCAGAT  
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AGCTAGCTTGAAACAGTAAAACAACAACAGCAGAGCCTTAAGTGTATTTT  
TGTGACCTAAAACATGAACTCAGGGTTTCCAAATTCCTAACAATGAATAG  
T  
>67.1  
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GTGTGCTTAGACCAAAGGAAACCAACAGGGATTTACAGGC  
>68.1  
TCCCCGCGGTGGCGGCTCGGGTACTTGACAGGATAAGAAATTAAGTGTGTC  
AAATTACCCACAAGTTCTATGCCCATGTTCCAGACCTGTGGCTCTTAGTA  
TCAGGCTTGATAGAGAAAAGGCTGCTATGAATTCTACTCAGTGTGCTT  
AGACCAAAGGAAACCAACAGGGATTTACAGGC



Table 3

&gt;69.1

TTGGAGCTCCACGCGGTGGCGGCCGGGTCCCATTTTCATCTTGCACCCGCA  
TACCAGGGATTGTTGCGAAGAATCAGTTGTGTTATATTGTCAAATCATC  
AAAGATACCCTGAGGTAAATTACTTAGGTTATTATTGGACATATCCAGTC  
GATAGAGCTGCCTTAGATAAGAAAAAGCATTGGGGGCACCCGATTGATG  
TGGTTATCTTGAAGATAAAGCTTCCTCAGGTTTGTGCCTGGAAGGTTTAC  
TGGTGCAGCAGTCAGGGAATCCGCACCAGGGACAGCTCTGTCAAATTAA  
CTAGGTTGAAGAAAACCTTTGTACCTAAACCATGATTGTTCAACAGGTTT  
CCATCTAGAACCAGGCGTTTTAGACTAGTGAGACCTTGAAGAGATGGTGA  
TGAAATAGTGGATATGCGATTATCATCCAAGCGTAGTTCTTCTATAGTCC  
TGGGCAAACCCAGGGAATTGTGCTAAGGTGATTACGGGACAGGAAAAGC  
AGTCGGAGATAGTTGCTGTCTCGGAATGCTCCCTCTTCTATGCTAACTGC  
AGAGACAGAGTTGTCTCATCTAAATGTAATTCTTCCAGATAGGGAATTTTG  
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&gt;70.1

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CTTTCAAGAGCTCGCACTCCACTGACATCTTTCAGAATATGCTGGACACT  
TTCAATGTAACCAGACTTGAGGAGATTTTCATCTCTCTCTTTTAAGGTTT  
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AATCATCCGCTGTTTCCACCTCTCCAACAAGAAAACCTGTTGTTTTGTCA  
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&gt;71.1

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&gt;72.1

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&gt;73.1

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&gt;74.1

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AAGCCCAACCTTCTTAAAGTAAGACTAGGTGCTTCTGATTATATATT  
CAACTGCCTGGAAGCATGCAAGTAAATTTCTTGATGGCATTTCATAAG  
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&gt;75.1

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ACTGTGTGTCTTTTATTTTAAAAATACGGAGTGTGCAATTTTACTGAA  
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AGGCTGA

&gt;76.1

GGTCTTGGCTGCCTGTGGGCTTCCCCAGGTGGCCTGGAGGTGGGCAAAGG  
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Table 3

TATTGGGGGGAGAGATCCCTGCAGAACCCACCAACCAGAACGTGGTTTGC  
CTGAGGCTGTAAGTGAAGAAAGATTCTGGGGCTGTCTTATGAAAATATA  
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GTGCAGTTTTCTTTTTCACATTAGGCTGGTTGGTTCAAACTTTTGGG  
>77.1  
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CACAAATGTTTCCAGGACAACAGGAGGCTGTGTCCACTGACAGTTCAGA  
CCGAAGTGAACCACTGGACCGGAAGCTCTAGCAAGTGTGCCCACCT  
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TTAGCCTGG  
>79.1  
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>79.2  
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>80.1  
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>81.1  
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>82.1  
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>83.1  
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CA  
>85.1  
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AAGGGATGAGGCCAGCCATAAAGAAAGGCTTGGCCAAATATAGTTCTTGT  
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Table 3

AAGATTTTCATTCTTTGTTCCAC  
>86.1  
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GCTCTCTTCTTGATTTCAAATCCACCAGCTTTTACCAGGGCCAGGGCCA  
GGCCTCCCCCATGCAGAAGATCTTCATTGGCTGCATTACCACAGCATCA  
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CTGGAGAGACCAGGGTAGAGATACAGCCAACTTATTCTGGAGGACTTCA  
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>87.1  
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>87.2  
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>88.1  
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>88.2  
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>89.1  
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>90.1  
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>91.1  
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CATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAACTA  
CAGCCATTGATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAGGAAC  
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>94.1  
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Table 3

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>95.1  
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CTGTGTGAGCTGTGCGCTCCCGACTGGGAAATGTCTAACTCCATCGAAAA  
CATGAGATGAGGGGCAGGGAAGGGGCTACTTCCAAGCCTTTCATTATAAT  
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>96.1  
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CCACAAAATGGCGGCAGCGCGCTCGCCCTAGAATCCCCGAGTCGCCTCT  
CCCCGCGT  
>97.1  
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CCACTTTTAAACAATATTTGTGCGCTCTTTCTTCTGCTTGTCTGTAAAT  
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CCTTTCTTGGGAGAGTTCATAATTCACCTACTCCATCTAGATATTTGTG  
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>99.1  
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>100.1  
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CTGTGCCACTGGGAGTTGGGAGGCGGCCTGCTGGGGTTCCCTGGGTGGCA  
GGATTTACACCTGCTCCTCCTGCTGGAAGGCTTCCATCCTGGACA  
>101.1  
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GGT  
>102.1  
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Table 3

GCTGAAGATTTTAGATTTCTACCTATTAGAAATGAATATTTCACTGAGGTT  
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GCTGGATGTGAGCA

&gt;103.1

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CCTCCCCCTCTATGCCCTCACCTTTGCAGGAGACTCTCAATTTCTCAGT  
CCACATCAGCTCTCAGACCACCAAAGCAAGGGTTATTTTT

&gt;104.1

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CTCAAGTCTGTATGACTCTACCAAGATACTGTGAAGTTGTCCTTCTGATT  
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CAAAA

&gt;105.1

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&gt;106.1

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ATTTAGTTTCTTCCACACAAATTTAGGCCTTAACCTCTTTATTTTTCTT  
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&gt;107.1

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GGTAGGTGAATTTTCCAAGTGTCTTGGAATAAGGAAACATCAAGAATA  
ATGTAAAGCCTCATATACAATAATGAATAATAAGAAATAATGTGAAGGC  
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AAGTGTCACTGGATAAAGAGTGAAAATGAATAAAAACTAATG

&gt;108.1

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&gt;109.1

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Table 3

GGTCCTAAAGAGAGAGCTAGGGGAGGTTGAGCTGGCCACAGAGATGCTAA  
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>110.1  
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>112.1  
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>113.1  
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GGCCTCTAGCTAGGGACTGTGGTTGCA

>114.1  
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TGCATCC

>115.1  
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GTTTAACTCTATCAGGGT

>116.1  
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CGAGACGATGGTCACCTCGGAACGCGCGCGCGCATCTGCTCGACCACGT  
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Table 3

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>117.1

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TAACATTAGGGCAATATCATGGCAATCGTGGCCCAGTAAACCATAGCAA  
ATGTTTTCTCCCTAGGACACTATCTGTTTTACAGGAAAATTTTTCTCAT  
AGAAAACTGTAGGAAAAGCCATGGATGAGCTGAGAAGACCAACCTATC  
TCTTGAAAAACAACAGTAGGGAGCGTGGATTAGAATGTCTTGGGTGCGTG  
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>118.1

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GCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAAAGTGATCAGGATGAAAG  
AGGTGATTGAGGACAACCAAGTAATAAGGAACTGTTTGGAGATGACAGTG  
AGGACGAGGGAGCTTCACATCATAGTGGTAGTGATAATCACTCTGAAAGA  
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ATGAAGA

>119.1

CGCGGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACGGTCCCTGGC  
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GGCTTTGGAAGAACTTGCTGCAAGAGAAGGCTAATGAGGTGCTGTGCCA  
TTGTGTATGTCTGCAGATTTCCCCAGGGTTGGGATGGGTTTCATCCTACAA  
CGGACAAGATGAAGTGGACATTAAGAGCAGAGCAGCATAACAACGTAACCT  
TGCTGAATTTTCATGGATCCTCAGAAAATGCCATACCTGAAAGAGGAACCT  
TATTTTGGCATGGGGAAAATGGCAGTGAGCTGGCATCATGATGAAAATCT  
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>120.1

CGCGGTGGCGGCCGAGGTACCGAGCTACCGAGGCTGTGGAATGAGACCGGG  
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AGCTATGGGCATTGTTTACA

>121.1

CCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTTCTTGGTGTAAGGCTT  
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TCTCTCCCTATATTCTGTTGTATTTTTTCAAATAACTTATTACTATCTC  
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GAATCTGCTG

>122.1

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TTGCAGAATGGCTGTGCTCCTGAAATATTTCTGTGAAGAAAATTGTTAC  
AATCCCATACATCACTGGCTTTTATTATTAAATTGAATGTTGGCTGGAA  
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>123.1

CGGGTGGCGGCCGCCCGGGCAGGTACGCGGGTGTGCAACTGCAAACAGT

Table 3

AACCTGCTATGGC

&gt;123.2

AGACTCCAAACAGTAAGGTCAGAATTTATCAAGACATTACATAGGAGTAA  
GGGCACAGCCAGGGGTGGTGGGG

&gt;123.3

GGAAGGACATTTTCCAGCACTAATTAACAGGTTTTATGATTCACTAGGTT  
GGCCCAACTACTGTTCTCACCTAATTCCAGGCCAGCGTGTCAGGAGGCC  
AAATGACAC

&gt;124.1

CTCCACCGCGGTGGCGGCCGAGAAATGTCGCCAACTGCCGTCTTCCCTC  
CTCGGCCGCTGCGACAAACACCCACAAAATGGCGGCAGCGCCGTCGCC  
TAGAATCCCCGAGTCGCCTCTCCCCGCGT

&gt;125.1

ACAGACTTTCATTCAACAAATATTTATGCATCAGCTACATGCCAGGATCT  
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TCCCTGCATTCTTGAGAGGGAGACAGCAACCAAATAAACAATTACAAAA  
AGTATGTAACATAATTAACAAGTGGGAGAAGGGAGTGGGATTACACAGCAG  
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TCATTAAGAACATGATCATCTTCAAGAACTAACCTTGAGATCAGAGT  
AGTTTGATTATAGAGGAAAGGGGTGAGTGCAATGAAACGTTAAAAATAGC  
CAGATCACGTAGAGCTCTCTA

&gt;126.1

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TCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAAT  
ATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACCA  
TTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGCA

&gt;127.1

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TTTCCAGAGACAAGAAAGCTCTCAACCTGTAAAGAAATCCTGGGACATGA  
CTGAGAGCAATGAGAACTCCAGGCAGAAGGTTAGCAGATATAGTGTAAG  
CATACACAGATATACTATAGTTTATAACACTGGTGGCTTAGCTGTAATC  
ACAAAATAGCACTGGAATTATACTAGTGATCATAGCACATAGTCCAAGAA  
GAAAAAATTTTGATCTTGTTCTTAACTTTGTGGAGCCAGTGGTGAAATG  
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&gt;127.2

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ATTACAATAAAAAATCAAGACACATGAAGGAGCATACT

&gt;128.1

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GAAACGACAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCA  
CGGTCTCATTCCACAGCCTGGTAGCTCGGT

&gt;129.1

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TCTTCATATGCCTCCTTTTGGGTGTCAGTGGAATGTCACTTCTTTCTAG  
AAGCTTCTCTGGCTCTCCAGCCTGGCCAGGGCTCCAGCTATGAGCTTC  
CATAACACCCCTAGTTTTCTTCAATTGCCCTCATAGTATATGGAATTTG  
TTCATTCAATTGCCTGGCTTCCAACAGATGCCAGCTCCAAGAAGGCAGGA  
GCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACACCCAACCTAATG  
CCTGGGCCAGAGTAGGTGC

&gt;131.1

TGAGCTACCGCGGTGGCGGCCCGCCGCGCAGGTACCTATCTGCAGAACGG



Table 3

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TGTGCTGCATTTGACTTCACTTTGGTAACAGGAAGCACTTTTAGTCTGT  
AGACCCCTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACTATTAT  
ATACTTAGGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAAACCTG  
GAGTGAGTTATTATTTCTGGTAATACAATTCTCTGCCAGCCAGTTGCTG  
CATCAAAACAGTTCTGATACACACACCTAAAGTCACCACTTCCTCATTCT  
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>132.1  
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CTCTCCTCATCATGGCTCAGCGCAATGGCGGCGTTGCGCTTGCCGGTCGC  
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ACGCCAGACCGGATACCTTGCCGTCCGCGCGTCTTGACAGAAGTCCGTT  
GAAGGAAACGCGCCTTCTGAGCTTGCCCCGAAAGTTTGCCATCC  
>133.1  
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AAACAATTCATAGTTTTAATTTCTCTCTCTATCTCT  
>134.1  
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GGAGTGAGGAATTGAGCTGGACAGAGATGTGCATTCCAAATTTTCTTTC  
CCTTTCATAAAGACTTGATCGTCTTATTTATCTGGATTGGCCATACACAG  
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>135.1  
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GAGCATGTTACTTGTCACTTGGGATCCGAATGACAACTCCACCAGATG  
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TTCTTAGCATTTCTATAGCTGAACCTCTTTAAGT  
>136.1  
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AGGTGCAGCTCAGGAAAGGGCTCAGCAAATTTCTCTGTAAACAGGATGCAG  
ACCCCGCGT  
>137.1  
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GTCTCCAATGGAGATGGAGAGATTTCTGAGGAGTTTCTTGCTTTGACAT  
TCAGTGAAAATGAGAAAAATGCTGCTTACTATGCTTTAGCAATAGTGCAT  
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CCCCAACACTCCAGT  
>138.1

Table 3

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ATTACAAATAAATATTCCACAAATTTGAAAAGTTATTAGAGGAAGAATTT  
TTTTCCCTTGTAATTTCCAGGTGTTTATATTAGTTGGGCCATAGTAAAA  
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AAACAAA  
>139.1  
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GGGCTCCTCAAGGGAAGGT  
>140.1  
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CAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAGCTCCACGGTCTC  
ATTCCACAGCCTGGTAGCTCGGT  
>141.1  
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CCTCTGAAGATACTGCTCTTACCCCTCTGAAGGGGGCTCCTCAGGGGAA  
GGT  
>144.1  
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TTTACTTCTGCGGTCTCCTTTCTTTATTCCCCGCGT  
>145.1  
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CACA  
>146.1  
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GTTCAAGGCATTGGATTCTGCTTGATTTCTTTTAAATTCATTGTTTTGA  
CCCCTTTGAGAGTTTTAATAGAGAGGAGTCTGGAAGGCAGAGATCTCCAC  
CACCTAACCGTGAGAAATTTGGAACCTAAGGACTTGCACTGGTCCCAAGT  
TAACAGTGGATATACTTCTGCA  
>147.1  
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TAAAGGATTGGTAGCTATTTCCCATCTACAAATACATGACAATTAATA  
AGCCCAATTCTTAAACTATCTGGAATTAGGTCAAATTATCTAATTTT  
TTTCTGATTTAATTATGGATTACGTAATCCAATAGTTGGCAACATTATAA  
AACCCTAACTTTACCTCATTGTTTGGCTATACCAGGTCTCATGACTCTGG  
ACATAACCACCA  
>148.1  
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GGTGCACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGC  
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CAATCTCCACACCCATCTTACTCTGAGCCAAGGAAGTGTCTGTTCTTGT  
GCTGAGTTTCAGGGGCCTTCAGCTTGCGGGAAATCCCGAAGATGGCCAAA

Table 3

GACAACTGAACTGTTGCTTCCAGGGCCTGCTGATTCTTGAAATGT  
GATTATTGGTTGATGCGGCATTGCCCTGACTGCCGAGTGCA  
>149.1  
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TCAGAGGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATA  
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ATGTTCAAACTTGAATTGCAGAGGTCAAGAGTTTAAAGAGTTTGGGATG  
GAAAGAAATCAAGAATTGGG  
>150.1  
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GTTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCAC  
AGCCTGGTAGCTCGGT  
>151.1  
CCCCCTGAGCCATGGAAGATACTGGAGTTAACAAAAATTTTATAAACTA  
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TGAATTTCTTATTCTGAAAGAATGGATAATGAATCAGGAGATGAGCAAAA  
ACGTATCTTTTACAAAGCTCTAGTCTTCCAAAAGCCTCTAAACTCAAACG  
AAACCTTTTTAAAGTAGTTTTGTAAAAGCTCAAGGTATGCCATTTCCAGA  
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GCAATGAAATTCAGGAATTGGACAATGACCTCTTGGCATATGAAAGAATT  
AAAAGAGGGC  
>152.1  
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ATTCTCCTGAGAATGATATTCCTATGGAGATCACCACGGCAGAACACAG  
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CTCTGAAGATCGACCTACTGGATTAGTTGT  
>153.1  
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AGGACGCGTGTGCTCCCGAGCGTGTGTTGCCCTTATGGTGCCGGCAGAGCC  
TCAGCTATCTGCCTGGGAAGTCGGATGTCTTGGAGAGAATTTGGAATGC  
AGATAATTTTCTTATTTCTTGAGAGCTTACTTTAATCAGCATGACACTA  
CCTAAACACTGAAGATGGCCTTATATTAGTAAGATTTGCACAAAATTAAG  
TATACCTATGCAAACTATTACTTTGGTTTTTAGGAGTTTGGTCAGATGAA  
GAAGTAATGGGATCACATATATATGTAAG  
>154.1  
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GCGGAAATGCGTGGTGCTGGCCGGGTGGATCACCAGGCTGCGGCAATCGC  
CCACGTTGGCCAGGTGGCTGAAGACCTTGAGGGTTTCAATGAACCTTCTG  
CCCTGCTCGCGGTTGCCCTTGAGGTCAAAGCT  
>155.1  
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CTTGAAAAGACTTCAGTCTCCGCTCCCCTGTTGATCTCATGGAGTGGGGA  
ATGGGAATTGAACCAGAACTGGAAAATTATTTAGGAAAGTTTGTTAACTA  
CTCTTTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGA  
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ACC  
>156.1

Table 3

ACCGGGCTGGCGGTCGCCCCGCTCTGGTGCTTGCATCTTGGCTTCCTATAG  
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ACAATGTTCTTGTTGTTCTTGGGTTTCTTAATGATTTCTGAATCATCAT  
TATTAATTATGGAATTCTCTGGTCGAAAAGTCACATTTGGTTTTCTCCTC  
AGTTTCTCACATCTTTTTCTTGCAGCTCTTCTCAGCTCTTCTTCCTTG  
CCTTTTTTACTGTCTTCTTGTCTTACTTCAGGT  
>157.1  
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CCGAGTCGCCTCTCCCCGCGT  
>158.1  
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CCAGGCTGGGGGTGCACGGATCTCACTGGGGCTAGTTGGTCGGATGGGAA  
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>159.1  
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>160.1  
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>161.1  
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>162.1  
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ATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA  
TTGATCCTGGTTCTACACTTGGACCACGAATAAAAAAGGCACACGAATA  
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Table 3

>163.1  
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>163.2  
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>164.1  
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>165.1  
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ACTGAAAGCAGTTAGCAAGGAAAGGTCTAAAAGATCTCCTTAAACCAGA  
GGGGAGCAAAATCGATGCAGTGCTTCCAAGGATGGACCACACAGAGGCTG  
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>166.1  
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T

>167.1  
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>167.2  
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C

>167.3  
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CTAAGG

>168.1  
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GGTACCTCGGCCGCTCTAGAAC

>169.1  
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GGCACATAGTAAGCAT

>169.2  
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>170.1  
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ATTGAAGGTTACCATCATCCTCACCAACTTTTGGGCCATAATTACCCCA  
ACCTTTTGGTGGAGCCTGAAAAAATCTGGGCAGAATGTAGGACTTCTTT  
ATTTTGTAAAGGGGTAACACAGAGTGCCCTTATGAAGGAGTTGGAGAT  
CCTGCAAGGAAGAGAAGGAGTGAAGGAGAGATCAAGAGAGAGAAACAATG  
AGGAACATTTTCAATTTGACCCAACATCCTTTAGGAGCATAAATGTTGACAC  
TAAGTTATCCCTTTTGTGCTAAAATGGACAGTATTGGCAAAATGATACCA

Table 3

CAACTTCTTATTCTCTGGCTCTATATTGCTTTGGAAACACTTAAACATCA  
>171.1  
GGCGGCCCGCCCGGAGCGGCGCGGAGCATGATGGAAGTCGTAGTAGGAAAT  
GGCGTCGTGGCATTGAGGGGCATCCCTCCTAGAACCTCCAGGAAAAGCTC  
GCGGAAGACGAGGTTCTGCGGAGAGAGAGGCTCCAAGCAGTCTGGGAAGT  
GTAGTCCAGTTGGCTTAGCAGTAGTTTCGTTGGGGGGGAGCCGAGGTTCC  
GGCAAGGGGCTAGGCCGGCTTGAAAAGAGATTATGACTGTACCTCGGCCG  
TCGAGCGGCCCGCCCGGGCAGGTACAACCTTTATACAACCTCAGGAGATTAA  
AAAAAATCTCCACAAGAAGAAGCAACTCAGCAGGCCCTGGCATTAAAC  
ATTTCCAGAAATAACAGATATGCATTGCATTAAAGGTAATTTTCAAATA  
TTTAAGTTACACCAAGATTTCCCTCCAATATGTGCCTTTCTCAAACCAAT  
GCAACTAATTCATTGCTAATACTGGGGCATGAATTTTGGCAAATGTTTA  
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GAAA  
>172.1  
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CCAGAGCCCAAACCTCTAATGTGCTGTAGAAAAAGGGCCAAGTCATTGAC  
TGCACCACTCCTTCAGCCAGAGGTAGAAAGGATTTACTCTTCAGCCATCT  
GGTAGAGCCCCAAGAACAAGTTACATGTGGACAAAGGGAGGGAGAGGTAT  
CATGGTGATTAATAAATTCAAACAAAGCTGAATGATAAGACCCCAAGGATG  
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AAGCAGGTCAAGGAAGATACAC  
>173.1  
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ACACATGCTGTGGAGATTGCAGTGTGCTGAGGTTTGTGTAGTAGTGGA  
GATTTTAGGTATGTAGAGCAAGTTGAAATGGATTGAGACTGCATGGGGGC  
ATAAATGAGAAATTGCCTGTAGCATCTAGTCTACTTGAAGGAAGTGGA  
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CACCAAGATGTGGGTAAATGAAAATTATTAGTTCAC  
>174.1  
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CTTGATAACCAGCTTGAAGAGGTTCTACTGACCAGAAATGGAATGAAAT  
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TTAAATCCATGAGGTACAATGATACTTAATTTTTTATTATTCTGAAAAAC  
CAGTAAATAAAGGCTAAGATTCAACAAGCATTTATCCAGCCTTCTCTCAA  
TGAAATATATCTTAAGAGAACCGAA  
>175.1  
AGGTACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTGGAGAGACTCTG  
TGGACGTAAAGAAGGGAATGAACACAGAGAACTTTTCCAGCCAGATTCTG  
AGTGTACCTGAACAAGAAAAGTCAAACTGGAGTGAACCATGCAATGC  
AGCGTGTGTGGGAAAGTCTTCTCCGTCATTCATTCTGGACAGGGACAT  
GAGAGCTCATGCTGGACACAAACGATCTGAGTGTGGTGGGGAATGGAGAG  
AGACGCCCGGAAACAGAAACAACATGGGAAAGCCTTCATTTCCCCAGT  
AGTGGTGCACGGCGCACAGTAACACCAACTCGAAAGAGACCTTATGAATG  
CAA  
>176.1  
ACGCGGGGTGCTGTGAAGAGCTTTGCATTGTGGGAAGTCTTTCTTTCTC  
GTTCCCGGCCATCTTAGCGGCTGCTGCTGGTTGGGGCCGTCCCGCTCC  
TAAGGCAGGAAGTGGCGCGGCACAGAAGACGAAAAAGTCGCTGGAGTC  
GATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGGAAGTG  
>177.1  
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Table 3

TTTATTTTCTTTCTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGC  
AGGATGTGGTTCTGCATCTCCCCACAGACGGGGTGGTTCTAGA  
>178.1  
TGGCGGCCGCCCGGGCAGGTACCAAACCATTTTCACTAGTTCAGGATAGG  
AATATTCATCAGATTGTCTCTGTAAAAGTGAATCACAAAAATCCACCTG  
TGAGGTGTGGGACTGGACAGCTGAGTGACAGGGCCCTGGGAAGAACAGA  
AACCACCTTTTCTCTTTCTCTGAAATATCAGAAGTTAAAAATCTACTCT  
GAGTTATATGTGCATCAATTTTAGACATATTGCTGATTTTATTATGAAA  
TGAAGTGCTAAAGACAAAGGATATTTCCATTCTCTGGACAGGCAGCCAC  
AGACCAGCACTGCTTGACCCATGTGTATACACATGTGTGCTTTGT  
>179.1  
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TAAGACCTTCTGAGGATGAGCGATAGATAAACACACCTCCTCTGAACCAT  
CCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGC  
TCCGTCTTCCAGAGCGCTTTGTGAACTTCTCAAATAAGAACAAGGACAC  
ACATTGTGTGACAGTTCACGAAGATCATTGAGTTTCCATATGCTGAAGGTTT  
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GTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGAT  
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>180.1  
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TGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTTATTTGGA  
GAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTCTGAGGGAT  
CCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTGTT  
TATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGAC  
CTGGGAACCTGTAAAGCCAAGAAGAATGGAGAGCCGTGCACGCAGAC  
TGTGAATTTGCGTGACTGTGAGT  
>181.1  
GGCGGCCGAGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTC  
ATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCA  
GAGCGCTTTGTGAACTTCTCAAATAAGAACAAGGACACACATTGTGTCA  
GGTCACGAAGATCATTGAGTTTCCATATGCTGAAGGTTTTTCCACTATTC  
ACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATC  
TATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTC  
TGATCAGTTT  
>182.1  
GCGGCCGAGGTACATGGATACGTTCTTCTTCTGGGGGCGGTCTCCAGTCCT  
TTCTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGAT  
ATGGAATTAAGATCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCAA  
CGCAGGAAAAAAAACAAAACTGGCTGGCGATCTGGAGTAAAGGATCCTC  
ACATCCACGTGAACCAGGAAACTCTGTGCCCAAATCGACGAAAAAAAAC  
ACTGGGAGAGCCGAACCTAAAAGTCTTTTAGCACGGGT  
>183.1  
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GAGCAACAGCAGGCATGGACCAAAGCAGTGAAGGATGTATGAAAAAGATT  
AGCAGTGTGAATCTTGACAACTTATAAATGACTTCTCACAGATAGAAAA  
GAAATGGTAGAAACCAATGGAAAGAACAATATACTGGATATTCAGTTGG  
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AAAGAAGAATGTGCTACTCTTCATAATATAATAAAGGGCTACAACAGAC  
CATTGAATATCAACAGAATTTGAAAGGTGAAAATGAACAATAAAAAATAA  
GTGCTGATCTTATAAAGAGAAGTTAAAGTCTCATGAACAGGAATATAAG  
AATAATATTGCCAACTTGTAAGTGAATGAAAATCAAAGAGGAGGGATA  
TAAGAAAGAAATAAGCAAACCTTATCAGGACATGCAGAGAAAAGTTGAAT

Table 3

TAAATGAAGAAAAGCACAAAGAACTAATAGAGAAAAAGGAGAT

>184.1

GGCGGCCGAGGTACATGGATACGTTCTCTTCTGGGGGCGGTCTCCAGTCC  
TTTCTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGA  
TATGGAATTAAGATCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCA  
ACGCAGGAAAAAACAACAACTGGCTGGCGATCTGGAGTAAAGGATCCT  
CACATCCAAGTGAACCAGGAACTCTGTGCCAAATCGACGAAAAA  
CACTGGGAGAGCCGAATAAAAGTCTTTTAGCACGGGT

>185.1

GTACGCGGGGGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTATAGCT  
GTCTGTTTGCACTTCTGATTGGGAACACTGGGATCATTTTCATCATGCCGA  
CAGTGGTGGTAATGGATGTATCCCTTTCCATGACCCGACCTGTGTCTATT  
GAGGGGTCCGAGGAATACCAGCGAAGCACTAAGTAATATGGATGATTATG  
ACAAAACCTGCTTGGAGTCTGCATTAGTTGGTGTGCAATATCGTTTCAG  
CAAGAATGGGTGGTGCAATTCCTTGCCAGGTTGTCTGGTGACAGACGG  
CTGTCTTGGCATTGGTAGAGGGTCACTGGAACA

>186.1

CGCGGTGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTG  
CACGGCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGC  
TTCACCCATAATTAAGACCTTCTGAGGATGATCGATAGATAAACACACCT  
CCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACG  
ACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTCTCCAAATAA  
GAACAAGGACACACATTGTGTACAGGTCACGAAGATCATTAGTTTCCATA  
TGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAAT  
ATAACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCAT  
CTTTCTTCTGATCTGAGACAGTCTGATCAGTTT

>187.1

GGCGGCCGCCCGGGCAGGTACCAGAGATTCCAGAGAGTGGTCTTTGGAAT  
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AAGAAGTGGCAGCATGGACTTATCATTACAGCACAAAAGCATACTCATGG  
AATATTTCCCGTAAATACTGCCAAATCGCTACACAGACTTAGTGGCCATC  
CAGAATAAAATGAAATTGATTACCTCAATAAGGTCTTACCCTACTACAG  
CTCCTACTACTGGATTGGGATCCGAAAGAACAATAAGACATGGACATGGG  
TGGGAACCAAAAAGGCTCTCACCAACGAGGCTGAGAACTGGGCTGATAAT  
GAACCTAACAAACAAAAGGAACAACGAGGACTGCGTGGAGATATACATCAA  
GAGTCCGTGAGCCCTGGCAAGTGAATGATGAGCACTGCTTGAAGAAAA  
AGCACGCATTGTGTTACAC

>188.1

ACTTTTTTTTTTTTTTTTTTTTTTTGTAACACTACAGGTGTCAGATGCATCACA  
AAAGCAGAAGTGCCCTTTCAGCTCTTCTCTGTGCCATTCTTGTCAATTT  
CATGCTGCCTACAGCAACAGCATAATACTGCAACAGCCATGATGTCA

>188.2

TCTCTGTGATTGACAGAGAGGGACACGTCGTAGTCAAGAGGTGTGCTCCT  
CAGAAGAATATCAGAACTCAACTCGCTGTGCCTCCAAGGGGCTCAATCCC  
TTGATTTGAGGGGAGGGATG

>188.3

AGCGGATGGGAAGTGATACTAGGTATGTAAAGGATGGTCAGTTACCTCTA  
AATGTAAGTTAGACCAGGACAGCCAG

>189.1

GAAGGAAAGCAGCTGCAAACCTCCCATCTGCAGTGTTTGTCTCGGC  
TCCGGCCATCACTGCCACGATTACCCCTGGATGAATTCCTCAGTGAAAT  
ATCAACAAGACTCAGCCCACCTGCACCCAGGTGATTAAAAAGCTTTATTG  
CTCACACAAAGCCTGTTTGGTGGTCTCTTACATGGACGCGCGGACATT  
TGGTGGCCTGACTTGGATCAGGGGACCTCCCTTGGGAGATCAATCCCCTG  
TCCTCCTGCTCTTTGCTCCGTGAGAAAGATCCACCTACGACCTCTGGTCC  
TCAGACCAACCAGCCCAAGGAACATCTCACCAATTTTAAATCAAGAATAT



Table 3

TCTGTGAAAAAGACTAAGATATCAGAGAAATTATTAGTGCACATTATTAG  
AAGAGAGCTTCAGATGAAAATAAAGATCAAGAAAAGACTCTTGCTTTGAG  
AAGACACAAAGAAATCACATCATCTTATTGGGATTACTGGC  
>190.1  
CATCGCCGTCCCATTGCTCACAGGGAAGGCGATGCCTGGCGGGA  
GCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAGATTCAGGCCTTGC  
TCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGGAAGTCTGAC  
ATTGGGGAAACTTTGCAATGCCCCGAAGACTTAAGTCCCGATGAGGTTGT  
GGAAGTAGAAAATCAAGCTGTACCCTGATGCTACAGACGAGGACATCACC  
TCACACATGGAAAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGT  
TGCCCAGGACCTGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGACA  
GTTATGAAACGAGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCAC  
AAGCAGTCCAGATTATATAAGCGGAAAGCCAATGATGAGAGCAATGAGCA  
TTCCGATGTGATTGATAGTCAGGAAGT  
>191.1  
GTACTCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTC  
CCAGGGTTACCCTCCTGTAAGTCTTCTGCTTAGTGTTGAGAATTGGGGGA  
TGCTGGGACTGGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATG  
CCTGTTGGGTTGCCTATGGATCATTCCCTGCTGGGCTCACTACCCGGCTT  
CGTATAAGGTCCCTTTTGGGTTTATTATTCTTGTCCATATACTTGAT  
GCTCTTCATTGGCTTGTCTGGGACCTGCCCTAGGTTCTCCGAGGCATAAA  
AGGGCCGGACAGCCCCGAGTTGGGGGAAGTCTGAAGCTTCTTGGTGGCT  
GGAACCTTGGTCATCTTAAAAATCCTTCAGGTTTATGCCTGTGCCCCAA  
GACAAGGATTTTCCAGAATCTTCTACTTCAGTAGTTACTGGTATGAGAA  
GTTTCGGCAACTTCTCCCTGATCCCCAAGTCCCAATTACA  
>192.1  
TGGCGGCCGCCCGGGCAGGTAAGTCTTTTTTTTTTTTTTTTTTTTTTTT  
TGGCTTGAAATACAGCTGAAATAACTGAATTTTCTACTTGAAACGTGTGT  
GCCTCTCACTGAGGGGCCAAGGCCCTGGAAATGTAAAGGGCCAATCTTT  
GTTACAGAGGGGTTTATTGCAAGTGAAGGGCGGTTCTGCAAAGACAAACA  
GGTCTCACAGATAGTTGCCCCCGCGT  
>193.1  
TTTTCTCTTCCTTCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGCCGG  
C  
>194.1  
CGGCCGCAGCGGCAGCTACAACAACCGCGTCGCTCTCCGCTCAATTTCCA  
AGAGCCAGCTTTGAAGCCAAGTGCCCCCGCGTACCT  
>195.1  
CCGCGGTGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAAC  
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TAAAAACCCTGAAACATGACGAGAGTGTTGTAAAGTGTGGAAATGCCTTC  
TTAAAGTTTATAAAAGTAAAATCAAATACATTTTTTTTCAAAAAAAAAA  
AAAAAAAAAAAAAAGT  
>196.1  
GGCGGCCGAGGTAAGTCTGAGCTCATAAGCTGGTATAAAATATCAAACATT  
TTGACTGTTTAAACAACCTCAAGATATGTTTTGCAAAATTACAAAACATTA  
TACAGGTGACTTAATTAATATCTACTCCAATTATACACAACACATCATGC  
TGAAGATTTAGATTTATTTGAAAACACTTAGTCTAATTTATATTAGTGCA  
GAAAAATCACATTCATAAACCACAATTGTAGAAGAGACAGATAAGTGTG  
TTTGTACATTTTACACAAATATAATTTGATATTTAATTAAGGGATGAT  
GAATCAACATCACCATGTCGCCCGCTGAGCGCCAACCCCTACCCCGTCG  
CCTCACTCGGATCCCCCGCGT  
>197.1  
GCAGGGCGGTATGCCGCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTGT  
GGAGCGCCTCACTAACTCCATGATGATGCA  
>198.1

Table 3

CTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGAC  
CAAGGTGTGAATGTGGGAATGAACATGGATCCATCCCATTGGATGGAGAA  
GAAAGGTGGACAGCCTGTTCTCTCATGTCAGCCTAGGGCTGGGAACA  
GTTTGTGAGGACTTATCTGTTGT

>199.1

GTAATTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAG  
GACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTGGATGGAG  
AAGAAAGGTGGACAGCCTGTTCTCTCATGTCAGCCTAGGGCTGGGAA  
CAGTTTGTGAGGACTTATCTGTTGT

>200.1

AAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGT  
TATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCTTCA  
GCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTG  
TTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGAC  
TGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAG  
AGGAGCGTGAAGTGTGAGT

>201.1

GTTCAAGCTCAACAAGTCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGC  
CCAGCTTCTTGGGGAAAAGGACAGATGAAGCTGCTTTCCA

>201.2

CTGATGAGCAACTTGGACAGCAACAGGGACAACGAAGGTGGACTTTCCAA  
GAAGTACCTGCCCGGGCGGCCCGCTCTAGAAGTAGT

>202.1

TTGGGGCACAGAGAGGGTTTCAGAGGATCCTTGTGAAACACTAGTTAAAA  
GATGACGAGTGGGGAGAAGTGCAGAGGAAAGAAGGAAATTAGTCTGACTGG  
CTTTCTGTCTGCACCATTGATTCAATGGAGACTGGCGGGAGGAAATGGA  
AGACTAGGGTTGGAGATGGGATGGGTGGGGCAAGGGATGGAAAGGAAAAG  
GCAGACAACTAATGCGTTCATTTATAACAAGTAATATATATCAAAGACT  
TAAAGGAGATTAAGACCAATCAGAATAATTTGGCAACTTTAATTCTTAG  
GAAGATCAAAGTTCCCTCCAAACCTAATTTGATGTTTTATTACTAAAAGC  
AAAGACCAGTATGGT

>203.1

TCCTTTCTCGTTCCCGGCCATCTTAGCGGCTGCTGTTGGTTGGGGGCCG  
TCCCGCTCCTAAGGCAGGAAGATGGTGGCCGCAAAGAAGACGAAAAAGTC  
GCTGGAGTCGATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGGAAGT  
ACCT

>204.1

CGCGGTGGCGGCCGAAAAGTATCAGACTGTCTCAGATCAAGGAAAAGAT  
GGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATAT  
TGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCTTCAGCATA  
TGGAAGTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTCTT  
ATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTGCG  
TAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAG  
GTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGC  
TCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGTGGAGAGCCGTGCA  
CGCAGACTGTGAATTTGCGTGAAGTGTGAGT

>205.1

CCGGGTGGCGGCCGAAAAGTATCAGACTGTCTCAGATCAAGGAAAAGAT  
GGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATAT  
TGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCTTCAGCATA  
TGGAAGTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTCTT  
ATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTGCG  
TAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAG  
GTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGC  
TCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGTGGAGAGCCGTGCA  
CGCAGACTGTGAATTTGCGTGAAGTGTGAGT

Table 3

&gt;206.1

CGCGGTGGCGGCCGAGGTA CT CACAGT CACGCT CCT CTGAACCATCCTTG  
GGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGT  
CTTCCAGAGCGCTTTGTGAACCTCTCCAAATAAGAACAAGGACACACATT  
GTGTCAGGTCACGAAGATCATTCAGTTTCCATATGCTGAAGGTTTTTCCA  
CTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCCTTGATCTGAG  
ACAGTCTGATCAGTTT

&gt;207.1

CGCGGTGGCGGCCGCCGCGCAGGTACATGGTTCTTCCTAGAAAGTGGTTC  
TTCCTTAATGTGTTTCTTTTACCCCTTTCTTCTTCTTCTTCCACAGATG  
TTTCTTCTTCTTCTGCCACTTTTTCTTCTTCTTCTTCAACTGAATAG  
GGTAAGTGTAAAGGCACAACAAATTAACACTGTATCAGATCTCATTCTT  
CCAAAAACGTTTGAGTCCTAGTTTTTTCTGTCTTCTCATCAACTACCC  
AATGTTTGTTTTGTTTATTTTATAATTGGGAAGGTTCTCCAAGGCCTACC  
ACTAACTTTAACGAATGATATAGATAGAGCTCAGAGCAATCTTCTCACGA  
TCATGAAGTCATGTATAAAAATCAGGATTAAACAAAGGTCATCTGATCT  
CCAATCATTATTGGGAAGAAAGTCAATTATATTAGAAATGGTTAAGAGCT  
TGCACCTCTGAAGTCAGACGGCCTGGGTTTAACTACCTGCTGCAACCCTG  
AAAAATTGTATTTACCCTTGGTGAAGCTCCCTA

&gt;208.1

ACATGGTTCTTCCTAGAAAGTGGTTCTTCTTAAATGTGTTTCTTTTTACC  
CCTTTTCTTCTTCTTCTTCCACAGATGTTTCTTCTTCTGCTGCCACTTTT  
CTTCTTCTTCTTCTTCAACTGAATAGGGTAAGTGTAAAGGCACAACAAAT  
TAACACTGTATCAGATCTCATTCTTCCAAAAACGTTTGAGTCCTAGTTT  
TTTTCTGTCTTCTCATCAACTACCCAATGTTTGTTTTGTTTATTTTATA  
ATTGGGAAGGTTCTCCAAGGCCTACCACTAACTTTAACGAATGATATAGA  
TAGAGCTCAGAGCAATCTTCTCAGGATCATGAAGTCATGTATAAAAATCA  
GGATTAACAAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAGAAAGTC  
AATTATATTAGAAATGGTTAAGAGCTTGCACCTCTGAAGTCAGACGGCCTG  
GGTTTAACTACCTGCTGCAACCCTGAAAAATTGTATTTACCCTTGGTGA  
AGCTTCTATCTATAAACTTAAGAATGTCTTATCTTACTGGACTGTTAC  
TGATTTAAAAAGAT

&gt;209.1

CGCGGCGGCGGACGAGGTACACGACATAGGCACATGTGCAAACACAAAGA  
AGGTGGGCTGCTGCTTCTTTCTATCTGCCCTAGACCAGGCTCCTTTGCT  
TCACGTAAGATGGAGACTGTCCATTCTCTGAAGTTGCTGGAAGGACAT  
TTCCCAGGAAGAAACAATTCCTCACTGCCTATAAACTGTAGTCACATGTG  
GGATAGTCAATAGAACATGAGAATCAGAACAATCTGGGCAAATGGGTATG  
GCAAGAATGGGAACACCACAACAGGACAGATGCCAACTCTCATTATGCC  
AGGCCTTTTGGCATATGGGTGCCTTCTGTGCTTCTTTCCA

&gt;210.1

GGCGGCCGAGGTA CT CACAGT CACGCT CCT CTGAACCATCCTTGGGCTTC  
ATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCA  
GAGCGCGGTGTGAACCTCTCCAAATAAGAACAAGGACACACATTGTGTCA  
GGTCACGAAGATCATTCAGTTTCCATATGCTGAAGGTTTTTCCACTATTC  
ACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATC  
TATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTC  
TGATCAGTTT

&gt;211.1

CTCACCGCGGTGGCGGCCGAGGTA CT CACAGT CACGCT CCT CTGAACCAT  
CCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGC  
TCCGTCTTCCAGAGCGCGGTGTGAACCTCTCCAAATAAGAACAAGGACAC  
ACATTGTGTCAGGTACGAAGATCATTCAGTTTCCATATGCTGAAGGTTT  
TTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAAT  
GTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCCCATCTTT

Table 3

&gt;212.1

TGGATGACATTGGCGGTGGTCCTTGATACCAGATAAGCCCTCAGTGTGAA  
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CTTTTTTGAAGGTGTGACCCTTTTTGTTCAATTTCTTCAGCAGTTACTTTT  
TAATTTTTAAATGTTTGACACACAGTCTCTGATAAATGATCATTACCAA  
TCACCGATTACTCTCCTTGCTCTGTTAAGTGTGACACTGTCCCTTTGAGA  
ATCTGGCGCAGCTATGTATCCCATACACACACCCCAAAAAAAAAA

&gt;213.1

GGCGGCCGTTTGAGAAGCCAGCGCTACCCACCCGGGGTCTCTGTGCATT  
GACCTTTGGGTGCTGACTTGAGAAAAGCACAAACACGACCAGTCCCCC  
GCGTACCTCGG

&gt;214.1

TTTTAACACAATATACCTAACATATTTTTATTTCAATATCTAACAGTAT  
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AGAAGTAATACCTGATTAAATTAGAATCCCAACCCTCATCAAGTGTGTGC  
TTATATAGAAGAAACCCAGTAAATGTTTGTGATTGAAAGATATTAATAC  
TCTTGCTTGATGAGAGTGAGGAAAAAGGTATTAGTATTGGCTTTTAC

&gt;215.1

GCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTAAGAATTGCCGTTGACT  
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CTTTGTCTTTGTCATGGAAGCCGCGAGCGTAGAGGTTCCGCGTGCTCTGC  
CGGACTTGAGCAGGTCACTGGGTCTTTACACTTGTGAATTCGAAGCTTG  
CCAGATGTATCCTCAATGCATTGCCACTTCTGCCCGGTTGTTACAGGC  
TGTCTGGTACGAGATCTCCGACCAGTCTGGGGGCGCTGGCGGCCTGCGCA  
GCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGAG  
GATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTT  
TGAAGTGTGTTTTGAGAGCAAGGGAACAGGGCGGATACCTGACCAACTCG  
TGATCCTAGACATGAAGCATGGAGTGGAGGCGAAAAATTACGAAGAGATT  
GCAAAAGTTGAGAAGCTCAAACCATTAGAGGTAGAGCTGCGACGCCTAGA  
AGACCTTTGAGAATCTATTGTTAATGATCTTGCCCTACATGAAGAAGAGAG  
AAGAGGAGAT

&gt;216.1

CCACCGGGTGGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTAAGAATT  
GCCGTTGACTCTTTCTTTGGCTTCTGCTGGCACGGTAACCAGACTCCCTA  
CAACTGCACTCTTTGTCTTTGTCATGGAAGCCGCGAGCGTAGAGGTTCCG  
CGTGCTCTGCCGACTGTGAGCAGGTCACTGGGTCTTTACACTTGTGAA  
TTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACTTCTGCCCGGT  
TGTTACAGGCTGTCTGGTACGAGATCTCCGACCAGTCTGGGGGCGCTGG  
CGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCT  
ACTCCAAAGAGGATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGAT  
TATGACATGTTTGAAGTGTGTTTGAAGAGCAAGGGAACAGGGCGGATACC  
TGACCACTCGTGATCCTAGACATGAACATGGAGTGGAGGCGAAAAATTAC  
GA

&gt;217.1

GCGGCCGAGGTACTATCAAAACAACATGATACAATTTAAATGTGTCATAGC  
AACTACTAGTGGTCACCTGAAATCCATTTTCCCCTCCTTCACAGTAAGAG  
TTTTAGCTGAATGAGTGGCCACTCATAGAGAGATTGCATTTCTGGCTTCC  
CTTGACGCCATAGGTAGCCATGGGACAAAGTTCTAACCAGGGGGGGTCC  
AATCTTTTGGCTTCCCTGGGACACACTGGAAGAAGAAGATTGTCTTGGG  
CCACACATAAAATACACTGGCATCAAGGATAGCTGATGAGCAAAAAAAAA  
AAAAAAAAAAAAAGT

&gt;218.1

CGCGGTGGCGGCCGAGGTACCATCCTGTTCCACAGAGCCATTGCCTATTC  
CTAAATTGAATCCGACTGGGCGTGCCCTCCTCGGAACACAACAGTAGAC  
CTTAATAGTGGAACATCGATGTGCCTCCCAACATGACAAGCTGGGCCAG  
CTTTCATAATGGTGTGGCTGCTGGCCTGAAGATAGCTCCTGCCTCCAGA

Table 3

TCGACTCAGCTTGGATTGTTTACAATAAGCCCAAGCATGCTGAGTTGGCC  
AATGAGTATGCTGGCTTTCTCATGGCTCTGGGTTTGAATGGGCACCTTAC  
CAAGCTGGCGACTCTCAATATCCATGACTACTTGACCAAGGGCCATGAAA  
TGACAAGCATTGGACTGCTACTTGGTGTCTTCTGCTGCAAACTAGGCACC  
ATGGATATGTCTATTACTCGGCTTCTTAGCATTACATTCTGCTCTCTT  
ACCCCCAACGTCCACAGAGCTGGATGTTCTCACAATGTCCAAGTGGCTG  
CAGTGGTTGGCATTGGCCTTGCATATCAAGGGACAGCTCACAGACATACT  
>219.1  
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CCGCGTACCTCGGCCGCTCTAGAACTAAGTGGGATCCCCGGGCT  
>220.1  
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GGGAAGGGGGACCTGCTGTTTGGCCAAATTTATCCTACAGGTCTTGGACGG  
TGGGACCTCTTCAGAGAAGATCTGGTAAGGTCAGCAGCACAGTGGCCATG  
GAAAAAGAAAACTCTACAGCATATTTCCGAGGATCAAGGACAAGTCCAG  
AACGAGATCCTCTCATTCTTCTGTCTCGGAAAAACCCAAAACCTTGTGAT  
GCAGAATACACCAAAAACCAGGCCTGGAAATCTATGAAAGATACTTAGG  
AAAGCCAGCTGCTAAGGATGTCCATCTTGTGGATCACTGCAAAACAAGT  
ATCTGTTTAAATTTTCGAGGCGTAGCTGCAAGTTTCCGGTTTAAACACCTC  
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GT  
>221.1  
CCGGGCAGGTACAGCAACAAGAATCAGATGCTCTTTAGAGATCCTCCATT  
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CTTTCTCCTGATAGCTCTTCTTCCCTACCCCGCACTTTTGGAAGTATTA  
CCCCAAATGCTCTTCAGGATTTAAATAACAATTTTTAAAAAGACACTTAA  
CACCACAAAATGGAATTTGCTGGCATGACGCGAACAATACGGTTACTCCA  
GATGCTGTATTCAAATGTATGGGTCCGTTGAAAAAATAGATATAACCAT  
TTTTCTCATAGACAGCATCTACTTTATCACCATTCTGGGAAGTCTTCT  
TCTATTAGTCTCGGATAGTCTTTATCCATAATATGGCTAGTATCATATA  
TCTCCAGCCTGGTTTCTGAGAACAGGAGAGTCTTGCTGTATCCTCAA  
AGTGAACAGCTGCACCTTATCTTCTTAACTTCTTTTGAAGACCCAGTTCA  
GATATTTTTTTGGGATAACCTTCCAAAATGTCATAACCAT  
>222.1  
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CCGCTCTTAGGCGACACACCTGGAAGCAGAGAATGGGACATTTTAGAGAC  
TGAAGAGCATTATAAGAGCCGATGGAGATCTATTAGGATTTTATATCTTA  
CTATGTTTCTCAGCAGTGTAGGGTTTTCTGTAGTGATGATGTCCATATGG  
CCATATCTCCAAAAGATTGATCCGACAGCTGATACAAGTTTTTTGGGCTG  
GGTTATTGCTTCATATAGTCTTGGCCAAATGGTAGCTTCACCTATATTTG  
GTTTATGGTCTAATTATAGACCAAGAAAAGAGCCTCTTATTGTCTCCATC  
TTGATTTCCGTGGCAGCCAACCTGCCTCTATGCATATCTTCACATCCAGC  
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GAGCAGTTTTTC  
>223.1  
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CAAGGCTCATCGATTTACCTGGAACCTGAGTTGGCTCAGCTGATGGGGGAA  
GTGGACCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGGATTCTTCCG  
GTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTGGGTCCC  
CACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTA  
CACAAAAACTTGCGAGTAGAGGGTTTGTTAGAGT

Table 3

&gt;224.1

GGCCGCCCGGGCAGGTA CTCCCTGTAAAGGGGAATTTCCATGCCGTCTAC  
AGGGATGACCTGAAGAAATTGCTAGAGACCGAGTGTCCCTCAGTATATCAG  
GAAAAAGGGTGACAGAGTCTGGTTCAAAGAGTTGGATATCAACACTGATG  
GTGCAGTTAACTTCCAGGAGTTCCTCATTCTGGTGATAAAGATGGGCGTG  
GCAGCCCCACAAAAAGCCATGAAGAAAGCCACAAAGAGTAGCTGAGTTA  
CTGGGCCAGAGGCTGGGCCCTGGACATGTACAGACTCTCATTTTATGA  
TGTATCCTACTGCATCAGGACATTTGTGTCAATGTCAGGTGACGAGGGGA  
AATGAAAGTGATGAGACGATGAGAGGAGTGAAATACCAAGGACGCCATAC  
TAGGAAACCCAGGTCTATTTGTTATCAGAGTAAGGATCAAGCCAGATAGC  
CTGTTATGTAATTTCTCCGATAAAAGATTTTGAAAGCAGGTGCTGTGGGC  
ATCTGTATGGGGAATCGCACTCATAGAATTATTTTCATTTGTAATATTT  
GGTATCAGGCCAAGCAAGGGAAAGAAGCTTTACTGTATTACCATCTTT

&gt;225.1

CGCTCCCCGCGGTGGCGGCCGAGGTA CTACAGTCACGCAAATTCACAGT  
CTGCGTGACGGCTCTCCATTCTTCTTGGCTTTACAGGTTCCAGGT  
CAAGAGCTTCAACCATAATTAAGACCTTCTGAGGATGATCGATAGATAAA  
CACACCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGAT  
CCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTCTC  
CAAATAAGAACAAAGGACACACATTGTGTCAAGTCAAGATCATTCACT  
TTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTT  
CTTCAATATAACCCCAAATGTACCCCAATCTATTTCTTCCAGCTTCTCTC  
TGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAGTTT

&gt;226.1

ACGCGGGATGGATAGCCGCTTG CAGGAGATCCGGGAGCGGCAGAAAGTTAC  
GGCGACAGCTCCTCGCGCAGCAGTTGGGAGCTGAAAGTGCCGACAGCATT  
GGTGCCGTGTTAAATAGCAAAGATGAGCAGAGAGAAATTGCTGAAACAAG  
AGAACTTGCAGGGCTTCTATGATACCTCTGCTCCAAATGCAAAACGTA  
AGTATCTGGATGAAGGAGAGACAGATGAGGACAAAATGGAAGAATATAAG  
GATGAAC TAGAAATGCAACAGGATGAAGCTTATCATCAATTCATTGTATA  
AAAATAAGAGATTTTCTGAGAGAACTGATTTCAAATGCTTCTGATGCT  
TTAGATAAGATAAGGCTAATATCACTGACTGATGAAAATG

&gt;227.1

ACGCAAAGTGATTCAGAGAACGCTGGGGCTCACAGGCGCTGTAGCAAACG  
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TACAGAAGGTCCAGGCTACTGAAAAGCATCAAGACCAAGCTGTTACTAGC  
TCTGCGCATCACAGAGGGGGGCATGGTGTTCACATGGGAAATTGTTAAA  
ACAGAAATCAGAGGAGCCATCGGTGTCAATACCCTTCTACAACTGCAT  
TATTAAGAAGTTCAGGGAGTCTTGGGCACAGACCAAGCCAGGAGATGGAT  
AAAATGTTAAAAAATCAAGCAACTTCTGCTACTTCTGAAAAGGATAATGA  
TGATGACCAAAGTGACAAGGGT

&gt;228.1

AGACTTGGCTGTTGGGAGGGGCGTGTCTTACACCTTAGGAAGAATCCTTA  
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GCTGCGCAGTATGTGCCTTGAATAAAAATCCTGAAGATTAGATGGTTCAG  
GCTGCATCATCCCAAAGCAAAGAGCACCTCTTTGAAGCTCACCTGCCCGG  
GCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTCAGTATGTAGCTTTAA  
AACAGTTACATATAACATGGAACAGTATGACATGAAAAGAGAGAGGTTTA  
TAGAGGGAG

&gt;229.1

GGCGGCCGAGGTA CTACAGGATGATGGCTTTCTCTTCTCTGGGTACAG  
GCAGGGCCATGGAGTTGGGGAGAGAATGTCTAAACCTCTGGGGGTATGAA  
CGGGTAGATGAAATTATTTGGGTGAAGACAAATCAACTGCAACGCATCAT  
TCGGACAGGCCGTACCTGCCCGGGCGGTGAGCGGCCGCCCGGGCAGGTA  
CTT

Table 3

&gt;229.2

TGTTACATTGGTCAGTTTTTACTTGTA AAAAGTATTATAGAAGAGTTTTA  
TTGGAATGTTATTTTATTAAGCCATTTTCATGGGTTATTTTTTTTAAAG  
TTTAAGAAAGTTTTACAACAGGCTGGGGGGGGGGGGTTACACC

&gt;230.1

GGCGGCCGCCGGGCAGGTACGCGGGGGAGTCAGACCCAGTCAGGACACAG  
CATGG

&gt;231.1

TCCCCGCGGTGGCGGGCCGAGGTACGACGTTCCATCAGCTTGTCTGTTTC  
ATTCCTGATGTTACGAGCAATATGACCATCTTCTGTATTCTGGAACTG  
ACAAGACGCGGCTTTTATCTTCACCTTTCTCTATAGAGCTTGAGGACCC  
CAGCCTCCCCCAGACCACATTCCTTGGATTACAGCTGT

&gt;232.1

AAAAAGATATTTTAATATATTCAGATCCACAAATATGAAATAAACTAAG  
TAGAGCTGGTATTCATTTACACATAATTATCTTATACCGTTTGAATAAG  
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TTAGTTCTTGTCTCCCTCTACAAATGTGAAGCACTCTTTTATCCGGCATT  
CCTAGGGGAGTTCCTATTTTCAAATTTGCAAATCATTTCTGGTGCTAAGC  
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TTTGGGAG

&gt;233.1

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CTTGGCTCATAGTCGTATCAGGGGTCGGGACCAAGGCCAAATGTCTGTG  
CCCTTCAACAGATTTTGGGCACCAAAAAGAAATACTTCAGCACTTGTAAG  
AACTGGTATAAAAAGTCCATCTGTGGACAGAAAACGACTGTGTTATATGA  
ATGTTGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCCAGCAG  
TTTTGCCCATTGACCATGTTTATGGCACTCTGGGCATCGGGGGAGCCACC  
ACAACGCAACGCTATTCTGACGCCTCAAACTGAGGGAGGAGATCGAGGG  
AAAGG

&gt;234.1

GGAGGCGGCCGCCCGGGCAGGTACAGTATAGGTTGGTTTTGCCTGTTTTG  
ACGC

&gt;234.2

CACACATTTACATATATATATGAAACTGTATAATGTGTTTCGCTTCAGTG  
TCTGGCTGCTTTTACTCAACATTGTGAAATTAATTCCTGTTATCGTATAT  
GGGATTA AAATTTGTTTGCCTAGTTTTTGCCTTCTCATTGCTTCTGAATT  
GGGGCAGCTTTGCCCTCAAGGGAAATTTAGCAATGTCTGGAGACATTTT  
TTATTTTCATAATTTGGAGGGACATGGGGGAGGTGTGCTACAGAACTTAG  
TAGGTAGAGGACAGGGTATGTGCTGAACGTTCCACAGT

&gt;235.1

CCTCCCAATTATCCCCAATTGAGAGATGAAAATTCTGACAAGCTCTCAA  
CGTTAACTGACTTGCCCATAAATGACAGTTCCAAAGTTATAAGGCTAGAA  
CTTGAATCCAGGTCTGTTAGAAATCTAGGTTTGAGAATCCATATTCTTTC  
CACTTCCCGCGT

&gt;236.1

CGGCCGCCCGGGCAGGTACCTACGCCACAGACAGCCAGAGGGAAAGCGAC  
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GAAAACAGCCGATACTGGCAGCCATTGCAGCTCCAACTGCAGAGGCAAG  
GCCAATTTTAACTTTCAATTTACAGTCGATTTTGAAGAGCTTCTACATA  
TCGGTTATGTAAATTCATATATGATTTTTTGAATCAGTTCTTATAAACA  
GCTCGATTAGTTTTAGCTAAATTTATAGTCTAGGTAGTATGTTACATTT  
GAACTTTTGTCTTAAGAAAAGTTGACTGTTTCAGATATTTTTCTACTGTAA  
AGAAATATACTTTTCTATTAAAGATCTGT

&gt;237.1

Table 3

GCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTATC  
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GAACTGAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGC  
GGGGCTGGCCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCG  
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GGTTTGTITAGAGT  
>238.1  
CACCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAGAGAG  
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TACGGGAGTATGAGCTTCAACCCAGCACACCAGGGGCCAGTTATGGGCC  
TGGAAGGCAAGAGCCCAGAAATTCCCAATTGAGAATTGTGTTAGTGGGT  
AAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGGCCGGAAA  
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GCATTTTCGACACAGAGGTGCCCAATGCTGAAACGTCCAAGGAGA  
>239.1  
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CCGTCTTAATTATCTAGAGGCCAGGCAAAGCCTAGCACGTAACAAAG  
TATGTGCTTTGTAACCTGCTGATTAATTGAGTTTCTTAAGTGGCAGAGCA  
GGTCATCAGTGTATCTAATTCACACTATTAATACTGTCTTGCTGAAGA  
GTCTGACCTGCCCAGAACCCCGTTATGGCTAGCCAGGGAAGCAGTAAAC  
TGCAAAGCAGAGAAAAAGGGCAGCTAAGATGAGGCTAGTGTGGCTGAGT  
CCCAGTTAGGTCTGTTACTGTTCTGTTCCAACTATAAATCCAGGATGACT  
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>240.1  
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CAATCTTTCAGCTGTTCCCTATTTTATCACAATAACTTTTCCCTATAATTGA  
GAGATCCATGAGGAAGTCTTGAAAAGAACGTATGTTTCTTTCAATTCCAT  
AAAACATTGAGCCAAAATAATAAAGAGGCGCTATTACTTTGTTTTGGGT  
GAATGATATGCAGGCTAGGCTTTGCTGTAGT  
>241.1  
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TATAAAAGTAAATCAAATTACATTTTTTTTCAAAAAAAAAAAAAAAAAA  
GT  
>242.1  
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AATAGTGGAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCT  
GACACAATGTGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCT  
GGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATG  
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>243.1  
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ACCTATTCTGAGTGTAGGCTCCTCCCCTGCTTGAGTAATGGCCACAGATC  
TTGGCTCGGCACTCCTAAGCTGCATGTTGAATTCCTGGGACAACAAGACT  
GGCTTGTGGTTCCATTCTCCAGATCCTTGGGTGGCTTCTGGGTGCACTA  
GGAGATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAAGTC



Table 3

TGACTCTAAAGAAGATGAAAATCTAGTAATTAATGAAGTAATAAATTCTC  
CCAAAGGGAAAAAACGCAAGGTAGAACATCAGACAGCTTGTGCTTGTAGT  
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>244.1  
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TAGCCATGTTTTACCTTGAGGGCCGAAGTTAACTTCAGCGGGAGTGAACG  
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CACCAAAAAGAGCAAGGGGAACCCCTCGCCCTCAACAAGGCCTGCATCTCC  
GGACTGGAGCTCAAGTATAG  
>245.1  
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GGGTCTCGTTGTAGTAGCAGTAGCGAATGTTTGTGGCTGCTATGAAGAGT  
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>246.1  
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CAACAAGAAGAAATCAAAGAGAATATAAAGAATAGTTCTGTCCCAAGAAG  
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AAAAAAAAAAGT  
>247.1  
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CGGCCGCCGCCATCTTC  
>248.1  
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CAGGCTCATGTAACATACTGATACTCAGTAAAAGGGTCCATAATCCAAAT  
TTATATAACAAATGGGGCTTGTATAAAATCTTTACATTTTAATACTTA  
CTCTTAATAAATCATCTATTCTTCCCTCCTTCTCTTAAGGCAGAAATC  
TACTGTTTTCTAGGGCAGATATTTTTCTATTGTGAGGTGCGACTGGGT  
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TGTTGCCAGATCCCGTAAATGAGGGACTGT  
>249.1  
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GACACAATGTGTGCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCT  
GGAAGACGGAGCAGGGGACTGTGCTAGGGATCCTCAATGCCAACCCCATG  
AAGCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCATCCTCA  
GAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCA  
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GAGT  
>250.1  
GGCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTC  
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TCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATC

Table 3

ACAAGGCTCATCGATTTACCTGGAAGTCTGAGTTGGCTCAGCTGATGGGGGA  
AGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGATTCTTCC  
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ACACAAAACTTGCGAGTAGAGGGTTTGTAGAGT

>251.1

TGGCGGCCGAGGTACCAGCACAAACCGGGCCAGCCTCTAAACTGCTCAT  
TTACTGGGCGTCTACCCGGAATCCGGGGTCCCTGACCGATTCACTGGCA  
GCAGGG

>252.1

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TATTTTCCAAATTATCCTGATTCTAAGAACCACCTATGACCTGTGCTGT  
TTTTCTGTGGTTACTGGCTCATGTCACATAAATTCTTTTAGGATTCAAAC  
ATGTTTGTGATATTACTCAGTATTTACATCTTGCTTTTACTGCAGCATGA  
TGAAAAAATTAACCACAGGTATATCATAACAAAAAGAACATGAGTTACCA  
TTTTCAAAAGTTCAGATATATTTAAATTAGCCTATTTAATCT

>253.1

GCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTCTACCGGTAGC  
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AGTTGTGTGCTAGAGACAGAGAGGAGCAGGAAAGTGTTTGAAGCATT  
GCGGCCGACAATGGAAGGCCCGGCTTCATCGAATTCCTGTTTGCTGATCC  
ACATCTGCTGGAAGGTGGACAGAGAGGCCAGGATGGAGCCACCGATCCAG  
ACAGAGTATTTGCGCTCCGGAGGGGCAATGATCTTGATCTTCATGGTGCT  
GGGTGCTAGGGCCGGGATCTCCTTCTGCATTGCGGCCGCAATGCCAGGGT

>254.1

AGCTACCCGCGGTGGCGGACGAGGTACTCATGGTTGCTGTAAATCTGGCC  
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CTGTCTTGTTGGATGGTCAGTCCCCGCGTACCTGCCCGGG

>255.1

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GGCCTGGAAGGCAAGAGCCCAGAAATTCCAATTGAGAATTGTGTTAGTG  
GGTAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGCCG  
GAAAGTGTTCATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTG  
AGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCGTAGTTGACACA  
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TTATTCGC

>256.1

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TTCTGTTCCGCACAGGCCTGCTGAACTGGGTGCTTTATATAG

>257.1

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GGAGGTACAGTCAATTCTGAGGTTTGGGCGTCATAGACTAAACCCAGAAA  
ACAGAACATTGGGAAGTCTTCGGAATATTCTCTATCTTCTTCAACCAACGA  
GTAAGACGTTTTGGAATAATGGGAC

>258.1

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AAAGAGATATTTACACAGTATAGTTTTGCCGGCTGCAGTTTCTTCAGCT

Table 3

CATCCGGTTCCTAAGCACATAAAGAAGCCAGACTATGTGACGACAGGCAT  
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TGC GTT GCGCTCACTTG  
>260.2  
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CGCTTCGGGGT  
>261.1  
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CACATTAATTGCGTTG  
>262.1  
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CTACAATGAGCTTCGTGTTGCCCTGAAGAGCATCCCACCCTGCTCACGG  
AGGCACCCCTGAACCCCAAGGCCAACC GGGAGAAAAATGACTCAAATTATG  
TTTGAGACTTTCAATGTCCAGCCATGTATGTGGCTATCCAGGCGGTGCT  
GTCTCTCTATGCCTCTGGACGCACAACCTGGCATCGTGCTGGACTCTGGAG  
ATGGTGTCACCCAACAATGTCCCATCTATTAGGGCTATGCCTTGCCCAT  
GCCATCATGCGTCTGGATCTGGCTGGCCGAGATCTCACTGACTACCTCAT  
GAAGATCCTGACTGAGCGTGGCTATTCTTCGTTACTACTGCTGAGCGTG  
AGATTGGTCGGGACATCAAGGAAAACTGTGTTATGTAACCTCTGGACTTT  
GAAAATGAGATG  
>263.1  
ACTTTTTTTTTTTTTTTTTTGCAGCCGTTTTTCTTACTAGAAGCTA  
GGCGGAAAGAGGTGTTACTCAGATTTCTTGAACCTTGAGACGTCAAAGGTG  
AGACGCCAGCCAAGGAGAAGGGATGGTCAGGG  
>264.1  
GGCCTTTAAAGCCTTCGCTTTGGCTTCAGCTTAGGAGGGGCAGGAGCTT  
CC  
>265.1  
CAACCGGGACCCAGCTTTTCAGAACTGCAGGGTAACAGCCATCATGAGT  
GAGGTCACCAAGAATTCCCTGGAGAAAATCCTTCCACAGCTGAAATGCCA  
TTTCACCTGGAACCTTATTCAAGGAAGACTG  
>266.1  
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCTAGGTATTGCTGGG  
CAAGATCCTTGTTGGAGTCCTCTCTTTTGTGCCCCACTCAGAGGATAG  
GCAGAGCAGACTGGCAGACACAACAGCACAAGGAATGCAAGATGCATCAT  
TCTCACTGCCCTTACCTTCTTTGTCTACTGGGCTTCTCCCCGCGTACCTG  
CCCCGGCGG  
>266.2  
GAGCCGCCGGGCAGGTACTACCTTCACCAACTTTTTTCAATTTGGGCATCAC  
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GAAGTTTAGCGAAAATTCGGCCTAAACAGTAATAAATGAAAATGGAATGG  
AAATCAAAGTTC  
>267.1  
ACTTTACCTCATTTCTACCAATCATTTTAAGAGAATTTGGTTGTATTTT  
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GCGGCCGAGGTACGGATACAATTCGCTGAGTTAGATTCAAATTTCTAAC  
CTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCT  
TTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAAT  
GGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTTATATA  
TTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATCATAGTTTCTTGAA

Table 3

CTCTCTGTAAGTCCAACCTTGGTTTTCGCGGACATAATTGTCCGGATTCCGG  
CTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

>268.1

ACATTTATATGAAAGTCCTCACTTTTCTGAGAACGAGAAAGGAGTAAGTACTAGA  
TGGGCATTTTCTATACCAGCTAAGGCTTTAAACATAACAACGTCTACTGA  
ACTATTTTCTACTTACTTTGACTGAATAAGCCAGTGAGATCGTGAAGTGA  
AGTGGAGACCTTCTGGCACTGCGACCACTAACTGTAAGTCCAATAAT  
GAAGAACTTCACAAAGTATTGTATATAAATTGGTGTGCACTCAGCAAGCC  
ATGGTCTTTTCTGAACCCAGAAGGTGTCAATGACAAAATATAATACTAGA  
ATGATAACTGTGATGGCAGGCATCAACAGACCTTTTCTGAAATAGAAATGAA  
AGAAAAATGTGATTATTAATTTTCCAGACACTAACCTTGACAGATATAA  
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GAGAAATTACTTCTTCTTGACACCTTATAAATTGACATTGTCAGATTAA  
TTTTTT

>269.1

TTGGAGCTCCACGCGGTGGCGGCCGAGGTACGCGGGATAGTGGAGGCACT  
GAAAGACCAGCAGAGGCATAAGGTTTGGGAAGAGGTTGTTACCGTGGGCA  
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ACAGATGCACAGGAGGCCATAGGGTTTAGGCAAAGGGGAGCACAAAAGTT  
GAAGATGAGGCGCTGCCACCAATGCTGGGACTTCAGGCCAGGGGCAGGAG  
CTGAGGAAGCCACAAGGAGGACATTTTCTGCAGTTGCTGAACCAAGTAGC  
AACCAGGTCCTGAGAAAGCCCTCTCTTGTGGAAGAATAACAGCCAGGAGG  
AAAAGCTTTTCACTCTGCAAAGCTGGGGCAGAAAGTTCTTCTTGAATCC  
CGCGTACC

>272.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGTCCACAGTTAGCTGCAGCAAAA  
CGCAGGCTGCCTCAGGGAAAGGAGCCTGGGTTGATTAAGTGTGTGTCAA  
TGTCCCACCCGTCCCAGGTAACATTTTGGCCCTGAGGTCCGGGGTAATT  
TAATGGCTGCTGGACAAAACCTCCAAAGTTCTTGAAAGATCAGAAATGAT  
AGCTACCTGGAGTCCAGCTGTACGGCACTTGGCGTAAAGCCGCTTCCCTC  
AAGAGTAAGTACAATCTTCCCATGCACAAGATGATTAATACAGATCTTAG  
CAGAATCTTGAAAAGCCCAGGAGATCCAAAGAGCCCTTCGAGCACCACGC  
AAGAAGATCCATCGCAGAGTCTTAAAGAAGAACCCACTGAAAACTTGAG  
AATCATGTTGAAGCTAAACCCATATTGCAAAGACCATGCGCCGGAAACACC  
ATTCTTCGCCAGGCCAGGAATCACAAAGCTCCGGGTGGATAAGGCAGCTGC  
TGCA

>272.2

CGGCACTACAAGCCCAATCAATGAGAAGGCCGCGGTTGCAGGCAAGAAG  
CCCTGTGGTAGGTAA

>274.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCGATGCTATGCGCT  
CAGTTCTAGTCAGAATAATCTTGCTCATCCTCCAGCTCCCCCTGTTCCAC  
CAAGGCAGAATTCAAGCCCTCATCTGCCAAAACCTACCACCAAAGACTTAC  
AAACGGGAGCTTTTCGCACCCCCCATTGTACGCGGGGGAGGAGCCTGAGGA  
AGAGGGCGGCGACGGTGGTGGTGAAGGAGCGGAGCCCGGTGACAGGATGT  
TGGTGTGGTATTAGGAGATCTGCACATCCACACCGGTGCAACAGTTTG  
CCAGCTAAATTCA

>274.2

AAAACCTCCTGGTGCCAGGAAAAATTGAGCACATTCTCTGCACAGGAAACC  
TTTGACACCAAAGAGAGTTATGACTATCTCAAGACT

>276.1

CGCGGTGGCGGCCGAGGTACGTTCTATTCTGCTCCTATTAGGTCCTTCT  
CACCGCACCGGCCCTCGGTGATTACGCCTCTCCAGTTCTGCTGGGGACG  
TTCTAGCCTCGCCCCACGCGCTCGATCTTTATGTTATACCGTCACTCCC  
AGTGCCCTAATGGAAGTATCCCTCCACTCACTCCCCCTGGTTCTACCCCG  
GCTCCAAGAGCCTCTCCCGG

Table 3

&gt;277.1

GGAGCGGGCCCTACCGTGTGCGCAGAAAGTGGAGGCGCTTGCCTTCAGCT  
TGTGGGAAATCCCGAAGATGGCCAAAGACAACCTGAGCTGTTCCGGTGCTTC  
CAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGTTGCGGCATTGC  
CCTACTGCGGAGGTGCATTCTTCTTTGTATCTTGACCAACACAGGCCTCT  
ACCCACTTGCTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTG  
GATCGGCAT

&gt;278.1

TTGGAGCTCCCCGCGGTGGCGTTCGCCCGGGCAGCTACTTTCATCCATAA  
AGGCCTGCAGCTGTTTCATTGATCCTTGCACTTCATCCATCACCAACTCC  
ATACAGTCAAAGACTTTGCTCTGGTCTGTAATATTTCTGGTAGTCAGG  
TTTTGTATTAAGAAGTTCATTCTGAGAAGACCCAAGATATGTCATAGGTT  
CCACTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAATATC  
TCTTTAGCCTCCTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCTGACG  
TTCTAAAGAAAACCTTTGTTATGTATTCCTTCATCTCAGCCACAGATGCTT  
CCAAAGAAAAATCTGATGCTTTTCCATTTGAATCTTCAAAACATTTTTGT  
AGAGTTCCATCAGTTTCCAGTCCGCTCTGCA

&gt;278.2

AATGTTTCAATTCTTCAGAAAGAGAAGATGCTTTGGCTCTAAAACTTTCA  
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GAAC

&gt;279.1

GCGGTGGCCTCCGAGGTACTACTCTGCACTGTTCTTTCTTTCTAATAAAA  
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TATGACCCGTGAGCCAACCACTTTCCGATGCCAGGGTTCTGACACCTCAC  
CTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCCACTTGGAAGA  
CTACAGAGGAATCTTGCTCTGCATAGTTCAAATAAAAAGAGAAGAGTTA  
ATTACCTGAAAAGCAAGAGAAAACAAGAAGGGTAAATTTTGAACCAAGG  
GAAATCATTTAAGAAGTGTCTGGTATTTTTCAAATTTCTGTCAGTTGTTA  
CATTTGTCATAAGTAAATGTTTAGGAATAAAGGATGGAGACATGCTTATT  
TTATTTAACTCCCCAAAATT

&gt;279.2

AAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA

&gt;280.1

CGCGGTGGCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGA  
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AGAACTCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGC  
AATATCACAAGGCTCATCGATTTACCTGGAAGTGGCTCAGCTGAT  
GGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGAT  
TCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATACTT  
GGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGA  
GTATCTACACAAAACCTTGCAGTAGAGGGTTTGTTAGAGT

&gt;281.1

CGCGGGGGGAGACATGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTCTTC  
ATCTCCCTGGGAAGGGTGCCCCGAAGTGAAAGAGATGGCCTGGTGGAAG  
GCC

&gt;281.2

AGATGGGCCAGGAGTCCAGTTTCTGGAAGGCCAAGAATCGAAGTAGCAAG  
CTGCAGCCGTTTTCCAGACAAGCATGATGTGGGGATGCAGAAGAATTCAG  
GACTGGAGGGGGCAAACCTCCGATGTGACTGAGGCCCACTGCCAATGGCG  
GCATGCTCAGATAGCACCCAAGAATTTGGGGAAAAAACTGGTGCTCACAG  
CT

&gt;282.1

GGGCCCCAGGGGAAAAAACCTTTTGGGCCCAATTTTTTTCCAATTTTCC  
AATTGGGCCTTGGGCCA

&gt;283.1

Table 3

GTACAGCATTGAAAATGGATCTGTCTTTGGTAAAGATCAGCCTATAATTC  
TTGTGCTGTTGGATATCACCCCATGATGGGTGTCCTGGACGGTGTCTTA  
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CAAATAAAGAAGACGTTGCCCTTCAAAGACCTGGATGTGGCCATTCTTG  
TGGGCTTCCATGCCAAGAAGGGAAGGCATGGAGAGAAAAGATTTACTGAA  
AGCAAATGTGAAAATCTTCAAATCCCAGGGTGCATGCCTTAGATAAATA  
CGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTTAATCCAGCCCATACC  
AACTGCCTGACTGCTTCCAAGTCAGCTTCATCCATCCCCAAGGAGAAGT  
TAGTTGCTTGACTTCGTTGGATCAC

>284.1  
TGGCGGCCGCCCGGGCAGGTACGCGGGGGCTCTAAGCTGCAGCAAGAGAA  
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GCACGCTCTTTAAGAGTCTGCACTGGAGGAACCTGCCATTACCAGCCT  
CCTTTCTTGCCAAAGGGAGGGGGAAACATACATTTATTCATGCCAGTCTG  
TTGCATGCAGGCTTTATGGCTTCTACCTTGCAACAAAATAATTGCACCA  
ACTCCTTAGTGCCGATTCCGCCCCCAGAGAGACCTGGAGCCACAGAGCTT  
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TTTCCTGAGCTACCGAGAGCGCCCGTGAAGTGAATCAACTGCTTC

>285.1  
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TCACTTACTAAATGAGATGGCCCATAAATTTAATCAGGAGATGGACCAGC  
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CAGCCTGAAAGAAGAAAACCTTTCAGCTTTGGCTTTGCTCTCTCTTCTGCC  
ATCTGATAATAGTGTTATCCAAGATAAATTCTGTGGGATTATAAACATTT  
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GAAGATGAAGAACCACCCACAGAAC

>286.1  
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>287.1  
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ATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCT  
TATTTGGAGAAGTTCACATAGCGCTCTGGAAGACGGATCACGGGACTGTC  
GTATGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGA  
GGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAG  
CTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGTGGAGAGCCGTGC  
ACGCAGACTGTGAATTTGCGTGACTGTGAGT

>288.1  
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CTCCATGATGATGCA

>289.1  
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ATTTTTGTTTTCTTAATTGATCGTGAAAAAGAAAAGGCTGGAGCTGGAA  
AGAGTTTCCTTTGTAAGTGTTCTTTATTGAAATCTATAACGAGCAGATA  
TATGATCTACTGGACTCTGCATCGGCTGGACTGTACTTGGCCC

>290.1  
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CCTAAGTCTGCTTACACAAAG

>291.1

Table 3

CTCCGGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
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ACTTATGACAAATGTAACAACTGACAGAAATTTGAAAAATACCAGACACT  
TCTTAAATGATTTCCCTTGGGTCAAATTTACCCCTTCTTGTTTTCTCTT  
GCTTTTCAGGTAATTAACCTCTCTCTTTTAGTTTGAACATATGCAGTGCA  
AGATTCTCTGTAGTCTTTCCAAGTGAAGGGTATAAAAAAAACACTTT  
ATATTATGCCAGGTGAGGTGTCAGAACCTGGCATCGGAAAGTGTTGGC  
TCACGGGTCATAGGGTAGTAAGAAGAATTTACAGAAGACAGTCTAGGTT  
CGAAAAAGAAAGTTTTATTGAAAGAAAGAA  
>292.1  
GGCCTTTTGGTGACTTGGTGCTCCTTGGAGTCACTGGAGTTCTACTTTGA  
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ACCCTGACTCTCTCCCGCTCTTTTCTCAGGTCAAGGTTTCTTTAAGA  
TCACGCTGACGTCCGACCCACGGCTGCCGT  
>293.1  
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AGGCAATAGAATACTTTGCTTTTGGAGGAAAAGGAGGAATTCATTTTA  
GCCAACACAGAAAAGCAGTTTTTTTTCAGGTGCTGACGGCCACCCACCA  
TCATCTAAAGAAGATAAACTTGGCAAATGACATGCACGTTCTTCAAGGCA  
GAATAATTGCAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAAT  
ACCTCTGAGAATAGAGATTGATTATTCAACCAGGATACCTAATTCAAGAA  
CTCCAGAAATCAGGAGACGGAGACATTTTGTGAGTTTTGCAACATTGGAC  
CAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTTTGGCTGTCCTGGGC  
ACAGAATTGCTGGGAAGCCTCT  
>294.1  
TGGCGGCCGCCCGGGCAGGTACGCGGGGAGGCACATTCTTTTCTACGTGAA  
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GGTAGCTTGCCAATAGATGAATCCCACTCGTTTGACCCATGACGCTCCTT  
CTTTGCATTTCTACCTCTTTCCCCACAGCAGTGCATGTCCACCATACCAC  
CTGAGAGTCTGTGGAATCTAATTTTCTGTTATACTTCTTTCTTACACTC  
ATTTTCTGTCTTTATTATGATAGTCTAACTTTTCTCCTCAAAGGTATA  
GCTGCCTTGCTTTTATGAAAACACACTTTTCTATTGTGATTTATCAGAGG  
CCTTTCCATATCTCAGCCACTATGCTATGACAGATTTTATAATTAATAAG  
TGCATTTCAAAGTGAAAACGTTACAAACATGCTTA  
>295.1  
GTGGCGGCCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAA  
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AGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACCATTCTT  
TGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATC  
CAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGTAGAGGTTAG  
AATTTGGAATCTAACTCAGCGGAATTGTATCCGACT  
>296.1  
GCGGCCGCCCGGGCAGGTACGCGGGGCTCCCTTGTGAGTAGACTATGCAA  
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CAAAAGGGAATAAACATTTAAAGACTCCCCGGGGACCTGGAGGATGGAC  
TTTTCCATGGTGGCCGGAGCAGCAGCTTACAATGAATAATCAGAGACTGG  
TGCTCTTGGAGAAAATATAGTTGGCAAATTCCTTAACCACAATGACT  
TCAAAATTTTAAAAAATAATGAGCGTCAGCTGTGTGAAGTCCTCCAGAAT  
AAGTTTGGCTGTATCTCTACCATGGTCTCTCCAGTTCAGGAAGGCAACAG  
CAAATCTCTGCCAGTGTTAACAAAAATGCTGACTCCT  
>297.1  
GTGGCGGCCCGGCCGGGCAGGTACGCGGGGGGAGGGCTCCGAAGTCTGGTT  
TTGGGCGGGAATTGAAACCGCCGCTGAAGCCAACAAGAATTGAGAACTG  
TAAATACCAAGCCTTGAAAGGGACCATGGTGCGGCCTGTGAGACATAAGA

Table 3

AGCCAGTCCATTACTCACAGTTTGACCACTCTGACAGTGATGATGATTTT  
GTTTCTGCAACTG

>298.1

TGGCGGCCGAGGTAAGTACTCCCCAGCAAATATTCTTTGTTGGCTTGCTTGACT  
AGATGAGCTGCTATAGTAGTCAATCCTGTTAGACTTGGACCAATTGTTTGT  
CTGAAGAACTGGAATCTGTCGCTCGCCCTGAGCACTGTATTTATTCCCCT  
TACTCAGTCCCAGGGACTTCTCCAATAGCGACAACCTCTGCGGCCGCCGCC  
ATCTTC

>299.1

TGGCGGCCGAGGTAAGTACTTCTGTCTTCCAGTTTTCCAATTCAAACCTTCTATC  
TTCTCCAAATTGTTTCATCCTACCACTCCCAATTAATCTTTCCATTTTCG  
TCTGCGTTTAGTAAATGCGTTAACTAGGCTTTAAATGACGCAATTCTCCC  
TGCGTCATGGATTAAAGGTCTTTTAAATCACCTTCGGTTTAAATCTCTTTT  
AAAAGATCGTCTTCAAATTATTTTAAATCACCTACAACCTTTTAACTAAAC  
TTTAAAGCTGTTTAAAGTCACCTTCATTTTAAATCTAAAAGCATTGCCCTTCT  
ATTGGTATTAATTCGGGGCTCTGTAGTCCTTCTCTCAATTTTCTTTTAA  
ATACATTTTTTACTCCATGAAGAAGCTTCATCTCAACCTCCGTCATGTTT  
TAGAAACCTTTTATCTTTTCTTCTCATGCTACTCTTTTAAATCTTCAT  
ATTTTCTCTTAAATCTTAAAG

>300.1

GGCGGCAGGTAAGTACTTAAAGTTGACTGGTAATCAGGGTAACCTTCTGATACTT  
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CGTGGTGGTAACATACTTTTAAACCAGCGATTGCACAGCAAACCACAATG  
CAAGTATTTCTGACTCCCAAGATTGCCGTTTCTTAAAGAGCAATTCTTCT  
GCAGGCAACAGCAAACCTACCTTTCTTCTGCTAACTGCTTTCAGTAAATTC  
TTGATGGCCTTCGATTCTGGATTGAGACATCTTCTCACCCCTTCTTTT  
CATTGTAGCAATGATCTCAACACGTGGACAAAATTGGCTTGCAGGAATAA  
T

>301.1

CGCGGTGGCGGCCGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGA  
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AGAACTCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGC  
AATATCACAAGGCTCATCGATTTACCTGGAAGTGAAGTTGGCTCAGCTGAT  
GGGGGAAGTGGACCTTAAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGAT  
TCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATT  
GGGTCCCCCTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGA  
GTATCTACACAAAACTTGCGAGTAGAGGGTTTGTGTTAGAGTACCTCGGC  
CGCTCTAGAACTAGGTGGATCCCCGGGCTTCAGGAAT

>304.1

TTGGAGCTCCACGCGGTGGCGGCCGTCGCCCCGAGCTTTCTCTTGTCCATG  
TTCTCCCGCTGCTGAAATTTCAAGTTGCGGGCGCTGTCACCTCAGGACCCC  
TCCCCCGCGTACGCTGGATAGCCTCCAGGCCAGAAAGAGAGAGTAGCGC  
GAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGAATGCTGTCAG  
CTTCAGGAATCCCCGCGT

>305.1

ACTCAGGTTTTATCTCTGCACTCCAAGTAGGATGAAAAGTAAAGAGCAAA  
GGCTCATGTTTGCCAAGTCTGTCTTTTGTAAACAAAAAACCAGCAGCTT  
TATCAAGCAGAATTCACCTGTATTTCTTAACTTGCCAGAGCTGAGTCTC  
ATGGCCACCCTTAGCAGGAGTTGGGGAGGTATTTTAAACAGGCACATTA  
TCATCTCCCCACCCAAAGTGGAGCTATTGCTAATGAAAAAGATACAATG  
AGATGTTTTATGAAATTATCTGTAGCTATTAAATGTCAGGTTTTTGAATTT  
ACTGAACTGGAAGAATACTCATAATGCAATGTCAAGTGAGAAGCAGGACA  
AAGAACATTTGCAATACAGTTGTATTTATAAAATTTTGTGTTACACACAA

>306.1

TTGGAGCTCCCCGCGGTGGCGGCTCGAGTACGCGGGGAGGCAGCGGAAAG  
CTCAGCCCATGTGAGGTGCCTCCTGCCAATCACAGACTACCCTTCCCTGG



Table 3

TCCTGGAGGTTCAAAGAATTGCAGGAGGGTAGAAAAGCACCTGGGTGCGG  
TGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTT  
GCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACTGT  
TCGTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGT  
GCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCAACAC  
AGCCTCTACCCACTGGCTTGAAGCCACCGACACGATGACATCTATGGGGC  
TGCCTGGATCGCATATTTGTGGGCATCTG

&gt;307.1

ATCACCATTATTCCTTTAGTCACCTCAGAGGCTTGTTAATGCTTTCTT  
TGTAATTAGGCTATATCTGGTATCTGTATAATATCTTCAGTTCTTCTTTA  
CCAGGGGTCTTACTCTGTTCTGAAACATGGCACCTCAGGCGGCTCCGGCA  
GCGCTGGACACAGGAACTCCTGGGTCCCCGACTCCGGCTCTCCTCTACC  
CCCTCTTCGGTTAACTCCGCTTGTTTCTCTACAAATGGCGCCGGAGGTC  
CCCCGCGT

&gt;309.1

TTTACAACCACAGCTAATGCAATTTTTTCCATTGTTCCCATTTTTTTCCA  
AACCTATTGGG

&gt;309.2

GCAAAGCCCATTTTTTTCCATGCATCTAAATGATAGATACAGGCTATGAA  
ATTCTTTATTCTATTTGTAGCAGCTTATGCAGGTGCAGCCAAACACAAAG  
CTTCAGGACAAATTGTACCTGCCCCGGCGGCGGCTCT

&gt;312.1

CGCGGTGGCGCTGCCGCGCCAGACTCTTGGAGAAAGTATAGCAGCAAACA  
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AATCATCAAATCACAGTTTTCCAACATCAATAAAGTGTTAACTCCTCAT  
TTGAAAGATGGTGTTCTCTGGATTGAATATTGAAGAATTAATAGAGAACT  
TCAGTCTGGAATGGAGGTTATGGATCAGATTTGTGATGTGAGAATATCTG  
ACATAATGGATGTATATGAAATGAACTATCCACATTAGCTTCCAAAGAA  
AGCAGGCTACAAGATCTTTTGGAAACAAAACTCTAGCCCTTGACAGGC  
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&gt;313.1

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TGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAATAAATTAATTGT  
AGACCTGTCTTGTTTTATGAAAAAGCAATGTGATAGTCTTTAAATTTATC  
TTTCTAAACAAGACACAAGTTTACACATTACCCAGCACAGTAACCCCTCT  
TGGTATTGTTTACCTAAAAGGAAGAAGTGATAGGAAAACTGATATAAGTA  
GAGAGTTTATTTGGGCCAAGCATGAGGGTTACAACCCAACCTGTATGGAGA  
CAAGTTGTCCTGAACAATACACATTC

&gt;314.1

CGGTGAGGTACGCGGGGGGTCTCTGGAGGTTCAAAGAATTGCAGGAGGGT  
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GCAGAAAGAGGAGGCGCTCAGGAATGCATGAATTGATTAATTAAATGTG  
AGAGCTGTAGATGGCTTTTCTCAAGGTGCTTCAAGTGCAGAAGCCCAAGT  
GATTGACCCACACACTTACCTTTGTGTTCCCTCCAGAAAATCCTCAGGGA  
GTGCCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACT  
GTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTG  
TTGCGGCATTGCCCTGACTGCGGAGTGCATC

&gt;315.1

GCGGTGGCGGCCTCCCGGGCAGGACCCTTAGCATTAGATTGAGTTATGTT  
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TTGGCCCCCTATCAATTTGCGTCAAATAAATTAATTGTAGACCTGTCT  
TGTTTTATGAAAAAGCAATGTGATAGTCTTTAAATTTATCTTTCTAAACA  
AGACACAAGTTTACACATTACCTTTTAGTAACCCCTCTTGGTATTGTTT  
ACCTAAAAGGAAGAAGTGATAGGAAAACTGATATAAGTAGAGAGTTTATT  
TGGGCCAAGCATGAGGGTTACAACCCAACCTGTATGGAGACAAGTTGTCCT

Table 3

GAACAATACACATTCTTATTAGCAACAGTTATAAGTAGGTTTTCAAAGAA  
AAAGAAGAGGCAGTTCCTAAG  
>316.1  
ACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGGAGCTCGGCGA  
GCGAGAGGCGGCGCTGGCGTTGGAGAGCGACGGCGGCCCCCGCGTAAGCA  
GTGGTAACAACGCAGAGTAACGCGGGAATGAAGAATCTTAGGCGGGTGCA  
CCCAGTTTCCACCATGATTAAGGGTCTTACGGAATAAAGGATGATGTCT  
TCCTTAGTGTTCTTGCATTTTGGGACAGAATGGAATCTCAGACCTTGTG  
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>317.1  
CCCGGGCAGGTACTCTGCAGAAAGTATAGCAGCAAACAATGCCTATAGAC  
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TGTTCTGGATTGAATATTGAAGAATTAATAGAGAACTTCAGTCTGGAA  
TGGTTTTTAAGGATCAGATTTGTGATGTGAGAATATCTGACATAATGGAT  
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>318.1  
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AGGTAGTTGTCACAGTGATCAGATGAGCAACGATTTCTCCAATGATGATG  
GTGTTGATGAAGGAATCTGTCTTGAAACCAATAGTGGAAGTAAAAGATC  
TCAAATCTGGACTTGAAAAGAATTCCTTGATCTATGAACTTTTCTCTGT  
TATGGTTCATTCTGGGAGCGCTGCTGGTGGTCATTATTATGCATGTATAA  
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>319.1  
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GCCCCCTCCAGGAAAAGTACCAGACATCAGCTGCCTCTTCTTCATTTTC  
AGCCAAAGAAAGGGCACGTTCAAATGAGGTGAGAGTCATATCATACTGCT  
GGGCATAGAAGCAACACAGCCCCAGATTGTTAAAAGCTGGCCGTTATAA  
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ATCAGAATAGAAGTGTTGCTTCCAATGCATGCG  
>323.1  
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TCTTCCACAAAAATACTTTATTTCTGATCTATACAAATTTTCAGAAGGTT  
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TCCCATGACCTTGGGGTACTTTTTTTTTTTTTTTTTTTTTTGGAAAGCT  
CTGCCATAAACTTCTAGCGTGTGCCAATGGTCACCTGCCACACTCGCACC  
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>324.1  
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AAAATTTACCCCTTCTTGTTTCTCTTGCTTTTCAGGTAATTAAGTCTTC  
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>325.1  
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Table 3

CCTGCAGAATCACCAGATTATTTTGTGGATTTTCCTGTTCCATTTTGTGC  
CTCCTGGACACCTCAGGTAATTTCTCCTCAGAGCTCCTTAATAAGCATT  
ATAGTCAGTTTTTGGCAGCAATAGAATCACTAAAGGCATTCTGGGATGTT  
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>326.1  
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CCAGACACTTCTTAAATGATTTCCCTTGGTTCAAATTTACCCCTTCTTG  
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TGCAGTGCAAAATCCTCTGTAGTCTTTCCAAGTGGAAGGGTATAAAAAA  
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TACCGGGAATCC  
>328.1  
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TCTACGCATCCCTTTGCCTGCCTGCCTGTGCCAGGGGTGTCAAGGGCTT  
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>329.1  
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AAGACACCACAAATTGAAACTCAGAATATATTTCTAAGCCTGCATTTTCT  
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TCTCCAAAACCTGCATGACATCACTAGTCTTACTTTTGCTTAATTTTATGA  
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>330.1  
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CGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGCTTTCTTTGCTCCTTCT  
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TTCTCTTGCTGGATCTTCTCCATCTTCATCTCCACTGTCTTCATGAACA  
GCATCTTCTGGAATAGCCTGCATCTGGACACCAGGTGCATGAGGTAACAT  
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>331.1  
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TGGTGAACCTAACTTGTACAGCAGCAGGTGATCAACAGCCAAATTT  
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Table 3

AGCCTCAAGTCAGTTGCCTTTTCTAAGTTTGAGAAAGCTGTATTCTGT  
>332.1  
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CTTTATGCTTAATATTCAATTCTGCTCCAGTAGAACATGGTACCT  
>333.1  
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GATTTCCAGTGGCTGCTGTTGTTTGAGTTTGGTTTGGAGCAAACTGAGG  
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>334.1  
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>335.1  
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CTCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCC  
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GGGGGGGGGT  
>336.1  
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TCAGGCTCCCAGGAACCTGCCTCAAACACAGGTCTCCACGACCAGGAGA  
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AACAGAGCTGTATCCCTCTGTGCAGCAAGAATGGATGTGCCAGGCCCTGC  
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GGCTA  
>337.1  
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TTGCCCTGGAGGAGCAGTGTCTGGCTTTGTCCCTAGATTGGTCCACTGGG  
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CACAGGGCAGCTCCACCTCCTGATGGTGAATGAGACGAGGCCAGGCTGC  
AGAAAGTGGCCTCATGGCAGGCACATCAATTCAGGCTGGATTGCCGCT  
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TCTGAGGGGCTGGGACACCAGGGTACC  
>338.1  
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GC  
>339.1  
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CTAATTTATATTAGTGCAGAAAAATCACATTCAATAAACCACAATTGTAG  
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ATTTAATTAAGGGATGATGAAT  
>340.1

Table 3

GGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTTGCCTTCAGCT  
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CTGATGGGAGTGTATC

>341.1

AATACTGCCAGTTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCTA  
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ATCCAAGGTCGACAGACCTGGATTAGAATCACTCTAAGCTTTATGCAGTG  
CGTATTGTATTTCTGCATAAGAAAGGGCTGCCTCTAGAACACAGTAAGT  
GTATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTAT  
ACCAACTTAGTATATTTTTCAAGGAGAGCTAAACCACCTTTTGTAAATGTT  
CGGTTTCTCACTGTTATCTTCCTTCTCTATAATTTAATTTATTTAATCTA  
CAAATTGACATAGGGCTAAAAGCTTCAATATTTTACAAAATATTAATTAA  
TGTAATTGTTCCCAATTATTAGAACTTTTTCCATTTTCAAATGTTT  
GCCAACTTCACACAAGTGTGTAAAAATAGGGCTCTGGATTTTCAAAGCA  
CATACATGAATAATTTATTAGCTATTCCAGGCAAGCTAAGTA

>342.1

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GTTTCTGATGTCATCTGGAACTGAGTAGCACATTTGCCTGCTCTGTT  
GGTGGCCTCACAAGCAAGGCAAAAGCATTATGGCAATCTAGGGTTCCAGA  
ATAACCATAAACATTAAGTGTCACTCCTTGGAAAATGACAGATGTATGCA  
AGTTTAGTTCCTCAGAGCAATGAAATCCAATGAAATGAACTATCACTT  
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AAGTTGAAGT

>343.1

ACATCAGAGATGCTCACACATTCTTTGAGTAGTTTAAAACTCATTTTAA  
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CTTCTTCCGTAAATTAATGGAAGGAAATGAGTGTCTGAGTTCTTAGAATC  
TCAAAGGCATGAGGATAAAGCTTTCCTGGAGATAATATAAGTGGTGGCA  
GGAAGATTTGGGAGCCAGATGATACTCTTTTCTCTTAGAGAAAACCTGT  
GGAAGCTCTGCCCTATACTGTGGGAAATAAATTCTAGACGCTGGCTTCTTT  
CTGTAGTAAACATGTGGGCCCTTTAAATGTTGAACCAAAATGTGCTTCA  
AATATAGTTTAGTTATAAAACATTTATGGGGGAGTATGTATGTGCCAACT  
ACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGTGTTGCTTAGA  
ATCTAGTAGTAGTAAGTAATAATTACTAACATATGCATTTACTATATAGG  
CAATACTAGGGTAAATATTTTACATAGATTACCTTATTTAGTAGCTCTTA  
GCTGCTAAAAAAAAAAAA

>344.1

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AAATTTACCCCTTCTTGTTTTCTCTTGCTTTTCAAGGTAATTAACCTCTTCT  
CTTTTTAGTTTGAAGTATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAG  
TGGAAGGGTATAAAAAAAAAAACCTTTATATTATGCCAGGTGAGGTGTCA  
GAACCCTGGCATCGGAAAGTGGTTGGCTCACGGGTCTAGGGTAGTAAGA  
AGAATTTACAGAAGACAGTATAGGTTTCAAAA

>345.1

ACACTGCGGCGGGGGCAGAAAAGCTGCAAGGAACAGAACCAGCAATGCAG  
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TCTCCTGCTCTATCCGCTGCTGTGGCAAATCCTCTAAAAACAGCGTTTTG  
CACAGCAGAGAGCAAAGTCCGCTTGTTATTCCACCCGATACGTGAGCTCA  
GTTTGCCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCTGAGG

Table 3

CCTTGTAGACTGACCTGTGGCAGAGAGCTCCCTGGGTCCAGCATCTGTTG  
CCCTCACCCCTTGACACATGCGGACCCCTCCCCAGG  
>346.1  
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GCAATTCAGGAAATTTGACTTTCCATTCTCTGCTGGATGACGTGAGTAAA  
CCTGAATCTTTGGAGTACCCATTCCCTTGATGTCTACAATATCACCTTTC  
TTATAGATTGCGATATATGTGGCCAAAGGAACAACCTCCATGTTTTCTAAA  
AGGCCTAGAGAACATATATCGGGTGCCTCTCCTCTTCCCTTTGTGTTG  
TCATTTTGGCGAATTACTGGAAGATG  
>347.1  
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AACGCAGCGTTATC  
>348.1  
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TGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAACC  
TCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCT  
TTCCCTGCTTTCTCAAACCATGTTTGGACCTGCTTGAAGCTCCCTCTGC  
TCTCCCTAGAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTCT  
TGGTGTGTGTGTGTGTTATCATCAGCCTCAACATCTGAAGCAAATGTTG  
GTGGGGGGT  
>349.1  
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GCTTGGAAGATTTACTAAGAAGTCAAATAGTGGGTTCTTAGAGGGAAG  
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TCTGTCAGAATGCCAATACAAGCAGTTGAGTGTTCGTTGCTGTGTTATA  
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>350.1  
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ATGAGAAAGGACTGGAGACCGCCCCCAGAAGAGAACGTATCCATGT  
>351.1  
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TTTTAATGATTTCTTTTTTGGGGGAGGGAATTTGTTGCAGTTTTATGGT  
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>352.1  
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GAGTCCAGGGAAGCAGTGGTAACAACGCAGAGTACCCGGGGAAAAAAGGC

Table 3

AAATAGAATGAGAACCATATTATGT

&gt;353.1

CGCGGTGGCGGCCGAGGTACACCCAGCTTTGTCTCCTGGCCCCAAATCTC  
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GTCATTATCCCTGAATGGCATAAATCAACAGGCTGTATGAGCATTGTGTG  
AGATTCTACATGAGGGAGAGCATTTCAAACCCATGACAGATGAGAGAAGT  
TAGTACACTCTCACTGAACTGGGGATGTTTGAATTTAAATGATGGACAAT  
AAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAGGCTACGAGAGGCCATGA  
GCTCCTCATCTCTTCTCTGTTCTGAGCTCTCTGATCCACCGCACTTGGGG  
CAGGGGGTGCATTCTCTGTGCCTCTCCTGAGTCTACTTTCTGCATCATTG  
GTTCTCCAGCTCACTTCCATAATGTCCTCCTAGGCTGCATTGGAATTGT  
GTGTTGTCTAGACCCATGGCCAACACTGTCATTGCCTGTGAGGGAG

&gt;354.1

ACTTTTTTTTTTTTTTTTTTTTGCCTTTAGAAGGTTAAAATGCCAATA  
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TTCTGTTACTCCATTTTTTTCTCTCCATATTGTATGCCTGAAGTGAGCTG  
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CACTAAACAGATATTTAACTAGATACTATTATACTACTAAGAATAGCAAG  
AATGTCTCTCAATTCTGGGAATTTCTCCTAGCTCACACAAATGAAACGCA  
CATCTCCATGAATGCTTTCTAATAAATGCTTCAGGATAGTATCATAAAC  
AAAGTCAAAATTAAGAAAAATCACCTCCATGGCATCCTGGTCATTCTCCA  
TCAGCTCACCTTTCTTCTTATCAGAATCCACAACCTGCTTT

&gt;355.1

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AAGAAAGGTGATAATGTAGACATCAAGGGAATGGGTAATCCAAAGATTCA  
GGTTTACTCACGCCATCCAGCAGAGAATGGAAAGTCAAATTTCTGAATT  
GCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACTGAAG  
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GGACTGGTCTTTCTATCTCTTGT

&gt;356.1

CGCGGTGGCGGCCGAGGTACCTGACTGTGGCTCAGATCTGCGTCGCAGCA  
GCGAGAGAAGAAATCACTCCATATCCGATGAGAGGAAGGGTGGCACAGAG  
ATGGTGTCTACAATTAGAGACATTTCTGACTCCACCTTAGCCTAAGCAA  
CTTTATGTAAGTGAACATTTGAAGGTTGTCTTTAATGGTGGGGGGTG  
TTTTTCTTTTTTAACTACAGTGCTTGCACAAGAGAGGGGAGGACTCAG  
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TTCCATGAGTGACCTACCTTTCCCGAGGAATGGGACTGAGAGGGTAGTCT  
TCCAGCAACTTAGTCTGCACAGGGCTCCCGTTCAGGCTGCCTTTGGTGG  
TTGTGCTTTTGAAGTTTCTTCTCTGCACTTCACTTACCTTTGAATCA  
GAAAGCAAGCCCAGCAGGTGAATG

&gt;357.1

ACCATCTGACTTGGCAATGTAAGACACACACGTTAGTGTGGGGCACAAAC  
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GGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCTC  
CAGTAGAACATGGTACCACCTTCTTCCAAGTTCAAAAATTATCTTTGAT  
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AACATTCTCTGCACAAGGAGTATTCCACGTGCTGAAAAGACAGAGGATT  
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GT

&gt;358.1

Table 3

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GGCTGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTG  
TTCTCTGTCCCTCTGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCAC  
CAAGGGCA

&gt;359.1

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TCTTGTGCCGTGTCTGGAACCGTGTATCCTTACTACATCACTGAACGACA  
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ACTG

&gt;360.1

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GGTTGACCACTGAAGACACGGGGGCTTATGGCAGAGATATTGGCACC  
CTGCCCACACTCCTGTGGAAGTGGTTGAAGCGATTCTGAGGGAGCAAT  
GCTGAGGCTTGGCATGACAAATCCGCCCTATATTTTAGAGCATCTGGAGG  
AAATGGCAGAAATCCTTAATCACCCAGAGTCTACGCTTTTCTGCACATA  
CCAGTCCAGTCTGCCTCCGACAGCGT

&gt;361.1

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TTTACTGGGCGTCTACCCGGGAATCC

&gt;362.1

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TGATAATGATTGGATCAGGCAGACAACACCTGATCAGTCCTAATATCAGA  
AAAGAGACAAGTAGACATTATGTGCTTCTGAGGTGAGGCAGTAGTAAGG  
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&gt;363.1

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&gt;364.1

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TT

&gt;365.1

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Table 3

&gt;372.1

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GGAGT

&gt;373.1

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&gt;374.1

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&gt;375.1

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&gt;376.1

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GCACTTAATTCATGCTCTACAATGTTAGTTGAATAGGTGAGTGACAGAAT  
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&gt;377.1

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&gt;378.1

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Table 3

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>379.1  
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>384.1  
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>386.1  
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Table 3

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>389.1  
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Table 3

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>398.1  
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Table 3

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Table 3

&gt;409.1

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&gt;410.1

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&gt;410.2

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&gt;411.1

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&gt;412.1

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&gt;412.2

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&gt;413.1

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&gt;414.1

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&gt;415.1

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&gt;416.1

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Table 3

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>419.2  
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>420.1  
CGAGGTACGCGGTGGTCGGCGCCATTTTGTCTCGGCAGCGGTGGCCGTAG  
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>421.1  
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>422.1  
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TAAACAAGAGGCATCTGCTAGAAAACATTCTATTGTATACATACTGAAA  
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Table 3

&gt;423.1

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TGTA

&gt;424.1

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CGGTATCCGGAAGCTACAGATTCAAGTGTGTGGTGGAGGACGACAAGGTGG  
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&gt;425.1

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TTTCATAAATGTATATGGGTTGTTACATCTTCTATAGGATAACATGAGTC  
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ATATC

&gt;426.1

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CAGGGGAGAAACCTTTGGATGTAATGAATGTGGGAAACCTTCCGTCAG  
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&gt;427.1

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TGCTACAGTAGTAACATGTTTTTCGGAGAGTGAAAAAACTCTGTTTACA  
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&gt;428.1

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&gt;429.1

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&gt;430.1

Table 3

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GCCAGCTGACCTTCAAACCTGCATTTGAACCGACCAACATTAAGTCCAG  
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&gt;431.1

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&gt;432.1

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TGACTTCGTGATGTGTAACCTGATTCTTCTCTGAAGGGGGAAACGCATT  
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&gt;433.1

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GGGCCAAAGATGGC

&gt;433.2

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T

&gt;434.1

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TAGTTGATTGAAATATTCTGTATTCTCAAGGCACCATCATGTTTGTTAA  
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CATCTTTGATACTAGAGATCTCAAAGCACTTAAGTCCATCACATTCACCA  
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&gt;435.1

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&gt;436.1

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Table 3

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>437.1  
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>438.1  
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>439.1  
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>440.1  
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>441.1  
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>442.1  
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>443.1  
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CGCCATCCTGCTCCACGCTGTCATAATCCTCACGCATCCGCGCTCGGGAC  
CCCTCTTCTATAAGGGACATACACGAGATCACCGAAAACCTCCTCTTCT  
CCCATTGTTCTATGAGGTGGGTGGGGACTCCAAAACCCGTAGCTCCTGC  
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>444.1  
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Table 3

GACATGTTTCGTAAGTGAGACAAGCCAGTGCA

>444.2

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ATAAAAAAAAACCAGTTATGTGAGCGTTAGTCACTGCTCATTTCCAGGA  
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>445.1

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TATGCTACCAGGCTGGGTTCAGTGAGAAGTTCTGGTCAGTCTTCTGTGG  
GTTGAAGGTTCAATATCAATTCTGTTTCAAAGCCTTTGTGATGCTATTTG  
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TGAGCTATCCCATAGTTTCATTCTCAACGTCTTACTGCACTGTTTAGGGT  
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>446.1

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A

>446.2

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TGAG

>447.1

CGGCCGAGGTACGTTTTGTGACAGGCAATAAAATTTTAAGAATTCTTAAG  
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GAAAGCAGTG

>447.2

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GATTCTAATAG

>447.3

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>448.1

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>448.2

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ATGATTTGAACACTGATCAAGAAAATCTTGTTGGGACCCATGATGCCCT  
ATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGGAAG  
TTGGGATCAGACAGTTAACTGTGGGATCCCAGAACTCCTTGTAATGCTG  
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>449.1

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TTTTTCAGAGAGTGGTGCAGCGCCAGACATTTTGCACATAAGGCACCAAA  
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Table 3

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>450.1  
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>451.1  
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>451.2  
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>452.1  
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>453.1  
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>455.1  
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>456.1

Table 3

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TCTTTTCCCGACAGCACAAAGAAGTAAGGGCAGTTATTGGACAGGTGTTA  
TTTAAACATTCTATTGTAATGAATGTGTTGTTTGGTTCTACTGCATTGT  
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&gt;458.1

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CCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTTGCCAGCTGACCT  
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&gt;459.1

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&gt;460.1

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GCGT

&gt;460.2

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&gt;461.1

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ACGATTACTGACTT

Table 3

&gt;462.1

ACCGCGGTGGCGGCCGAGGTACGCGGGATATTGTTCTGATTTGCCTGAT  
GTGTGGACGGATCACCAAGCGAGTGACACGAGAGCTCAAGGACAGGCTAC  
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AGACAAGCTCCTTTGTGCCTCTACGTGGAGAGGGCGTGGAAGTTATCAC  
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T

&gt;463.1

CCGACCCTGCCGCTTACCCGGATACCTGTCCGCCTATTCTCCCTTCGGGA  
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&gt;463.2

AGGACACCGACTTATCCGGCCACCTGGGCAGGCAGCCAACTGGGGTAAAC  
AAGGGATTAAGCAG

&gt;464.1

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&gt;465.1

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&gt;466.1

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&gt;467.1

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&gt;468.1

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&gt;469.1

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&gt;470.1

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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>529.1  
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Table 3

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Table 3

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>542.1  
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>543.1  
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>544.1  
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>545.1  
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>546.1  
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>547.1  
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>548.1  
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Table 3

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&gt;549.1

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&gt;549.2

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&gt;550.1

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&gt;551.1

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&gt;552.1

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&gt;553.1

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&gt;554.1

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Table 3

CATTTTCCTGCTCTGTTTTCTCTGTGACATGAAGCAACAGAACTGAGAT  
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Table 3

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>571.1  
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Table 3

&gt;576.1

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&gt;577.1

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&gt;578.1

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&gt;579.1

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&gt;580.1

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&gt;581.1

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&gt;582.1

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&gt;583.1

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&gt;584.1

Table 3

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>585.1  
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Table 3

&gt;594.1

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&gt;594.2

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&gt;595.1

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&gt;596.1

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Table 3

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Table 3

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Table 3

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>621.1



Table 3

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>622.1

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>625.1

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Table 3

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Table 3

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Table 3

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Table 3

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&gt;651.1

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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>696.1

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>697.1

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>698.2

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>699.2

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>701.2

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Table 3

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Table 3

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>708.1

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>714.1

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Table 3

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Table 3

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Table 3

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>735.1



Table 3

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TTTGTAAAGGATCACTTTCTCCGGTCCCCGTGACCTGTCCCTCGCC  
TCCTCTAAGCCTCAGCAGAAAGGCCTTCAACATCCACTTTTCCACAACAT  
TCTGTCTATGATACCTGCATTCTCTGAGATGCTAGAAGCTTTCTCTCCAG  
CTCTCCCTTTCTCTCTGAGCCTTCAACCGAGTCCCCATTGATGTCCGT  
ATTTTACCAACAAGCTCTTCAACGCTATGGAGGCTTTCTCCAGCAGGTC  
CCTGAAAACGTCTGCAGCA

&gt;736.1

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CGCTTTTATTTCTCTGAGGGGAAAAAAGAGCATACATTATAAACT  
GGACAGCAGAAAGACTGAGTAATTTCTTAAGTTCTATAAACTCATTTGGA  
ACTTCTACAAAAAGTTGGAAGAATGCAATTTAATAAAAAATTAGATGCT  
AAAATTGTTTCATCTAAATTTTTTAATTCACACAAATAACATAAACTAT  
ATGAATAGGT

&gt;737.1

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CGATCCCAGTCCTCACCTCATTGTGTGGTAGCCAGCAGCAGAGAAGATA  
GGAATTTTCTGCCCCCTAGCAATACTGTTTCATCCCATCGATGGCCGAAAT  
GCCAGTCTGAATCATTTCTCTGGGTAGATTCCACATTGAGGGTTGATTG  
GCTGACCTAATGTATTTCCAAAAAGGAAAATTTCAACAAGTTGCCGCATT  
ATTCATGAATGAAATTAGATATCATATCAAATTTAAAGAAAAGAAAAAGC  
ACCAGAAGACCAGAACTACATAAAGCATCTCTTTACTACAAAAAAATCA  
GTTATTTTCAAATATGAACTTGAAATAATTGTTTCTTTACTCTTTTG  
GAGACTCACAAAACATTGGGTAATAGAATTCAAGTT

&gt;738.1

ACTATCTGCTCTGAATTAATAATTTAGAACAATAATCACCTGCCGTGCCAC  
TACACATGGACATAATCAACTGCTAAATTATGATTTGTTTTCTTCCAGTT  
ACTTTTCCAATTATTTTACATATACAAATATTTTCTTGGTAGAAGAACA  
AAAGTGGCACTATTCATTGTGTAGTTTTTTGTAACCTATATTTTACCCT  
AAGCATTTTCTCGTTGTCTTAAATTATTAATTGAAATTAATTCATGGCTA  
AATAAGTCCCTAGGCTGCCATGAGTCTTTTCTCCTTCTATAAACCGTGTC  
GCATTCCTTTTATATATCTTTTTCAGCACATCTGCAATGATTTCTTTGGAA  
TAAATTTCTAAAGTTCGCTGGATCGAAAAGATTGAGGGATTTTATGTGT  
CTTTCAATTTGGCAAAGTATTTTTCAGAAACAAGCCCATTTTCAGTTCTGA  
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&gt;739.1

ACACAGTTTCCTTCTTTCGAAACAATCCAGAAGTAGGCTAGCAATGGTCAC  
CCCTACATACTTCCGCACACATCTTTAAGAACAGGACACCATTACCACAC  
CCAAGAAAACCAGCATTTAATGAATTTATTCAAGAGTATCATCCAACATA  
CTCAAATATCCACAGCTGTTCCGAAAGTATCCTTCAATTCTGGATCCATT  
GATGGTTCACAGGTTGTATTTGGCTGTTACATCTTTTATGTTGTATCCT  
TCAGAGTAAACTGGCCTGCCCTCTTTCTTTCTTTACAATATTGACTCC  
TTTGAGGAACCGGGGCTGGATGTGGAGCATTCTCCATTATCTGATTGTT  
TCCATGTGACCAGATTCCGGGTCACAAATTTCTGGCAAGAACCCTTCACAG  
ATGACCATGTATTGGTTATTAGGTAACAATAGATTACTCAAGTAGAGAAC  
TGGGAAATT

&gt;740.1

ACATTGTCTGCATTTGAGATTTTCTATTATCTTTCTGGTGTTGATTTCT  
TGTTTAATTATACTGTGATCTACAAGCA

&gt;741.1

ACTTCAGGTTAGAGATGACTTCAATATATGTGCGCAGACCTCCCAAGGTGA

Table 3

GCATCACACAGCACTTATCATAATCACGAAGCAGCTCCACAGAGGCTAAG  
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AAAAAATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTTGACTCACT  
GAATAAGATTTTAAATTAGTCAATAGTATTGGATGCCTCTATATCTGCAT  
ATCAATAGGCTCATAAACAAGGTTGCTCAAAGAACTGCCCATCAACCACT  
TGGTTTCATCTCTGGACACCACACTGTTATCTTCCTTTGGCCTCTGTCCA  
TAACGGGTCCAGGCTACGTGCACCAAAGGAAAAGAATTGGGT

&gt;742.1

ACAGGTTTCCCTTGCCCTCAACTTCTCATCCTGGGTGATGAGACTGTTACT  
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CTTTTAAGAAAAAGGAAAATCAGAGTGCTTTAAAGGAAAATCAGAGTGCT  
TTTCTTGCACTCTGCTATTTTTCAAGTGCTTTAACTCAAAAAAATCAATA  
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&gt;743.1

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TGTGACAATGCAGTCAGCCACAGTGACGGAGTGCAAGATCGGATCACCAC  
ACAGATCCAAGAGACCGCTCACCACACCTGAGAAACAAGAACCCAAGACA  
GCCTCATGGAGGTGGAACCGTGCTACGCAGTTATGGCTTCACTACTGAAT  
GCGATCTTGC

&gt;744.1

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GACATTCATTTCTCTTCCTTGTATAAGACTCCTTGTATAAGACTCGGTGT  
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&gt;745.1

ACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTATTTGGGCCCTAA  
CATAAT

&gt;745.2

CCTGCTCAGAGCGACGGAAAAAAGGCAAGCCTTTTCAAACATAACTCTCT  
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CTG

&gt;746.1

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TCGTTAAGTAAGTAAAGCTTTTTATTTTAGGTAAGAACTGATTTTATTT  
TTTAAATTATTTTATTTATTAGCACAGAAGAATAATGAGAGCCACA  
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&gt;747.1

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TGTGGTTT

Table 3

&gt;748.1

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&gt;749.1

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&gt;750.1

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&gt;751.1

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GATACCTGACCC

&gt;752.1

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&gt;753.1

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TTCCT

&gt;754.1

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CCAAT

&gt;755.1

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Table 3

TAGTAGGGTATAAAAAGTATCCTGAGAAGTTGAAAGCAGTGTGTGAATGGG  
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>756.1  
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>757.1  
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>758.1  
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>759.1  
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>760.1  
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>760.2  
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>761.1  
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>762.1  
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TTCTGAGGTATGTAATATTTTATTATTATTACCATATTGATATTCTCTAT  
ATAAAAAAATTTACATATTGTAGTTTTTCAAGTAAAAGCTGTTGTGAACAT  
TATTTTTTGTCTAGTGTAGTTAATTTAAAAAATAAACAACCTGA  
>763.1  
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Table 3

TTGCTCTGAAGGCATCGCTGTGGTG

&gt;764.1

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AGGCAAAAAAAAA

&gt;764.2

TTCATTAAGGGATTAAAAATGTATAAGGCCAGCACCGTGTAACCTTCGA  
CTTTCAAAGAATTTTCCTGGA

&gt;764.3

TTTTAACCTTTTTTTTAAATAAAGGGGGAAGGCCAAGTTTTTTTTTCAA  
AACTTCCCCTTAAAAAAATGG

&gt;765.1

ACAGAAGCAATGTTTTTGAAGTTTTCTATCTGAGGATTGTTGAATCCA  
CAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATTTCAGA  
AAATCAGTATTTTCATACAATCAGCTAATAGCCTAATTTGTTGAGCACAGA  
AAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAGGAT  
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ATTTATTGGGGCCCT

&gt;766.1

ACAGAAGCAATGTTTTTGAAGTTTTCTATCTGTGGTTTGTGGAATCCA  
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AAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAGGAT  
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CTCTCCGTCAGGAATTTTGTCCCTTGATC

&gt;767.1

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TAATAGATTAGTGGAATTTTACCTGGCCTATTAGCACCTTATAAAGAA  
ATAGATTAAGAGTAGGAAATATATAGATGAAGATGACTGTATAGAAGTT  
GTGTAAATCAGTATGAAAGTTCAATGTTGCTGTTCTTGCTCAGTGATT  
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&gt;768.1

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&gt;769.1

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TAGAATAATCAACTTTTAGGTAATTTGATACTGCTATAATTTCAAGCTTA  
GAGAAAAGTTGTAAGAATGGCATAAGGAACTCCTATATATCCTTTATCTA  
GATTCACTAAATGTTTCATTTTGTGCCATTTGTGTTATTCTTTGTCTCATC  
CTAGCCCAGTCAGCCTAACACCACCAGGGATAAACAGTAGTCTGAT

&gt;770.1

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GCTCTTGCATCCCAGTCTCACTCCCAGAGAGGCACGAGGCCCTCCAGGA  
TGTGGGGACAGGAACCTTTGGGGCAAGCCGGGGCTGTCCAGAAGATCACCA  
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CTGGGAAAAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAG  
AGGGCAAGGGCAGCTTGGATTTTGTGCCTTACAGGGTCGGTATTATATA  
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Table 3

CATGTTAC

&gt;771.1

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TAACATAATGCTATCAAGATAAAGTTAGAAATACCACATTTTCAGAAACAGC  
TGGAAGTAGACAGGGTCTTCATAGGGCTAGCTTGGGAAACCTAAATAGCT  
ATTAATAAATGAA

&gt;772.1

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GTTCCCTTGCCTACAAGAACAT

&gt;773.1

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&gt;774.1

ACATATACATTATGTAATTA AAAAGCGTGCATGTGTATGTATTA AAAATA  
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TTGTGTAATGTATGACAACAAGACAAAAAAGCA

&gt;775.1

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GGTTCTTGTATCGGTTGCAACCCCGACAGCGCGCCAACAGACAACACGAG  
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&gt;776.1

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&gt;777.1

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AGCTTGAGGCAGCTTGAGAAACAGAATTAACA

&gt;778.1

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&gt;779.1

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&gt;780.1

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&gt;781.1

Table 3

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ATCCCA

&gt;782.1

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&gt;783.1

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&gt;784.1

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&gt;785.1

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&gt;786.1

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&gt;787.1

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&gt;788.1

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&gt;789.1

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Table 3

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Table 3

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Table 3

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Table 3

&gt;808.2

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&gt;808.3

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&gt;809.1

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&gt;810.1

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&gt;810.2

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&gt;811.1

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&gt;812.1

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&gt;813.1

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Table 3

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Table 3

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>820.1

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AAC

>821.1

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>822.1

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>823.1

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>826.1

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**Table 3**

&gt;827.1

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&gt;828.1

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&gt;829.1

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Table 4

&gt;1

NNNNNNNNCCACCTCCTGCGTTTAAGCAATTCTCCGCCTCAGCCTCCCGAGTAGCT  
GGGATTACAGGCGCCACCACCATGCCCGGCTAATTTTTTTTGTATTTTAGTAGAGATGG  
GGTTTCACCATCTTGGCCAAGCTGATCTTGAACCTCCTGACCTCATGATCCGCCCACCTCGGC  
CTCCCAAAGTGCTGGGATTACAGGCATAAGCCACTGCGCCCCGCTCTAATAATAAATATTT  
AATGAGCTCTTCCATTAAAAAACAGTGATAAGATTTATGAGGTTTACAAGAAAGAGTAAGGCA  
TGGTAGATGATGTGAATGAGCATATACCCTAATTCCTTGAGAAAACAAAATAGAAATACACTA  
AAAGGAACATCACAAGAAGATGCTATTAGTTGTAATGATTAATATTTTGTGACATACAGTAT  
TTTATTCATTCATATTTATATCTTCTCACATTTCAAAAAGCCATTTAGTGGTTAGGTAAAGAG  
TATAAATAGTAAAAGCTCAGAGAGGTTGAAGAGATCATTATGGCTGGGGAAAATTCATAAAG  
AAGGTGAGAACTTAACAGAACCTCAGAGGCTGAGTGGGATCAGATAGGCTAAGAGGGTGGC  
AGAAGACACTCCACATGAAGAAAAACATGAACAAACAATTCAAGATGCTTTAGGACATAGG  
ATACAGGGTGATTGGGCTTGGATACTCCGATTAAGAATGGTAGGAAAAAACTAGAAAGAA  
ATACAGAGGCCTAATCGAAGTCTCAAATCCCAAATAAATTTTAAATTTTTCATGTATAGAAAA  
ATGGACCTCGATCTTTATTCTACCATAACATATAATTCCAAATCTCTCAGTATGTCCAAAAAA  
AAAAAAAAAAAAAAAAAAGTACCTCGGCCGC

&gt;2

NCGCTGTGGGAGGACGTCCGGGTGGGCGGAACCTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCCACGAGAAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTTCACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAGAAGCTGTTTTTGCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
AAGTAGTGTTAAATTTAACCCTAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCTATGGAAGCTTTCATTTTTACAGCAGCAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCACTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTGCAATCTTTCCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTCGCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCAGGA  
GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAATCTATCTATAGCCAGATTCAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTGAGAGAAGAAGAACACGTAGTGGCAGTTGTAATAAATTGGTATTC  
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTCATTGTAGAATACAGTATTTGCAACTCATTTTTTCTTGTTTTTATTACAGATATAC  
TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTGAATCTTTTAAACAATCAGCCTGCATTTATATAACTTTTATAAATAAATAAT  
AATTGGGTCAAGTTAAGATATTAAGTTCCCTTCAGCANNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;3

&gt;4

&gt;5

NNNNNNNNNNNNNNCGCGCCCGTGTGCGAAGACGACGGGTCCACAGCTGGGCGC  
GACCATAGCGGCCTCCAGCCAGGGGGGAGCGCTACGAGAGGGCCTCACGTGATGGTCA  
CCACTAAGAGGAGGCACAACGCCTGTTCCCGCAGAAAGCAGGCGCCCCAAAACGCTTCAGA

Table 4

CAGAACCATAGCCAGTAGACAGAGCTCTACTTGACTTGAGGATAGAGAGAAAGATGAAAAGT  
CCAGAGCCGGACTGCATTGACGGAGACCATCACCCAGAGACACTAAGACCGGAGTTAAGG  
TTCTAATGACTTCATTAAGTCTGGCCTTGAAAATGAGAGGTCTGGATGGCTTCTGATTTTCAG  
CTGCAGTACATCCCTTCAGAGCCTACCAAGGCCACCATGCCATGAAGAGCTGCCAGACAA  
AGCATTGTGGGAGTGCCCTCTGTTAGAACAATTCTGATCCAGGCAGGGAGTAGTTTGCTGC  
CCAAGTCTTCAGCTTTTCCATGTCCACACACAGACAATCCATGAAGTATGTTTCCTAAAGCCA  
GGGCAAAACCTGAAGTCTGCTGGCTATTCTCCACTAACAGTCGAAGCTTGTTTCATAACATCC  
TCAGCCTCTGTAGCCTCAATAATTCCAGCACTGAACGCTGATGTACATACACAGCTAAGTGT  
GTAGGCAAGGACCTCCTGAAACGTTCTGCTCTGGCTCCCGCTGTCATCTACGTGCGCAGAC  
AGCTTCCGGAGCAATGCTGCTACGTGAACGCGGGACTGCATTGGCTGCTGTGGCTCATGA  
GGGACAGAACAAGTCCAACCTCCAATATACAGCCCGTGTGTTGATTCAAGACTAGTGTCAAAG  
CAGCAATTTTCCAGGGCATCCAACGACTTCATCAGAAGAAGGTTTCATCTCTTGCCAGATAT  
ATCACTGAGTTTCTCTTCACACAAGCGAGAGAGAAACATCCCTAAAGCAAGGCCCATGTGGA  
TTTGCACGGCTTGAGACTCATCAGCACTTGGTTTCCAGGTAACCTGGCAGTCAGCATGTTT  
AGGATTTCTCAACCTTCTCTTTGCAAGAGATAATGAAAAGTGGCACAAGGAGAGACAAAGC  
CGTGGCGGCAGCAGAACGGGCAATGGCACTAGCTGTGTTTTACCAGAAATAGGACTTATAA  
TAAACCAGGAGAGAAGTTGCCCTCTGGGTTGGTAATGGCTATCCACAATGACCAAGAGTGT  
ATCAAGTACCATGGAACCCACTCTTTCATTGAAAGGAAATTAGGTTGAACCTCCAGGAGCC  
CGTCAGAGTCTGAGGAGAGGCTGGCTTCTAGTCTAGATACGACGACAGCAAGGCTGCTTAG  
AGCTAACAGCGCATGGCTTTCACTACCGGACTCTCCTTTGCAGCTGCCTTGGTGATCTCAT  
CAGTCAGCATGTCTCTAACCCAGAGCCAGGCTGTGCTTTTTTTGACTGCACCTCCTCAGGT  
TCTTCTTTTCCATGTTTTAACTGCAACTCCAGCTCTCCTAGTCTTCCCTGTAAATGGCATGAT  
AAGCTCGATTTCATGTATGCAAGCCAGGCCTGTGGAAGAAAATTGCACGGTGCCACTCTGAA  
AGCTGGATCAGACN

&gt;6

NCGTCCGTCACGCGTCCGCCACGCGTCCGGCGGATGGATCGCTTGAGGTCAGGC  
TGGTCTCAAACCTCCTGACCTCAAGTGATCTGCCCGCCTCGGCCTCCCAAAGTACTGGGATTA  
TAGCTGTGAGCCACTGCACCCTCCCGGAAATGCTTTTTAACGGTCACCTCCTAGGGGAGAT  
GAAGAGAGTTACCGCATAATCAGTTTTAACTGTATTTGTAATGTTTGTCTTTACCTGGGAG  
GATATGTTGTAGATACGTGAGATAGAATACCTAAGTGACACAATGGTGTGCAGGCTATGGCT  
GCAAAGTAGAAAGTTTCTAAATAGCATGCTTGGATTTTTATTGAAATTGGATGAAGTTTTGTG  
TCCTAGAGAAATTCACAAATGTTCTAGTTTCAGATAAAAGGTTATGATTTAACATCTTTGCT  
TTTGTTCTTTCTTGCTTTGAATAGAACAGTGGGGGACGGTAAGGTCTGTTTGCAAAGTACCT  
ATGACCATCTTACATTATTTTATGGGTGGGGGCGATTGACTGTGGAATGTGGGCAGTAACT  
TGACAGTCAGTAACCGTTTGAGTAACCTTCTTTGGCATCCCCATTCTGGCAGCTCCTCTCT  
AGGTCTCCACCTCACACGCTGGTTTGTGGGCGGAGGGGCAGGTTGGTGCGTGGGGTGTCC  
GGGCACTGGCTGTGCATGCCTTCTTCTCTTCTGTCTCTTGCCACCTTTTCAAAAAGTCA  
CCAGTGACCAATTCTCCAGTGTTTCTTTGGGACTCAATGCCTTGGGCTTGGCATTGGGTAA  
AGCCAAGTGGCCAGTTTCATTCTGACGAGCTCTATAGTAGTCCGGTGTGGACCTCTGCCCTC  
CCTGCTCTGCGGAAGCTTCTCAGCCTTGTCTTCTCACTATTTACTATTTGCGGGTCTGGG  
GGTACCCAGCGTCTCAGGGTTTTGGCTGCCACCTGTACGTCCGTCTTCAAAGTGTGGT  
CAGAGTCAACCTCAGGTGCTGCTTTTCTGAGTCACTGCATTTTTTTTTTTTGTAGTAGACC  
AAGTCTTGCTGTGTTGTCCAGCCTGGATTCAAACCTCCTGAGCTCAAGGAATCCN

&gt;7

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAAGTGAACGAGTATTT  
GCAAAACCATTCCTTGCTTGGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCTTTCTGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTTCACTGTTGGTGATGACAAAAGTGTGAAGCAGTGGAA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTGTACAGTAT  
AAGTAGTGTTAAATTTAACCAATTGAGACATTTCTTGGGAAGTTGTGCATCTGACAGGAA



Table 4

TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCCTATGGAAGCTTTTCAATTTTACAGCAGCAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCACTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTCTGAATCTTTCCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTCGCCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAAATCTATCTATAGCCAGATTGAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTGAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAAATAATTGGTATTCT  
CTAACAACTCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTTCAATTGATAGATAAGTATTTGCAACTCATTTTTCTTGTTTTATTACAGATATAC  
TTACTTTCTCTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTGACTCTTTTAAACAATCAGCCTGCATTTATATAACTTTTATAAATAAATAT  
AATTTGGGTCAAGTTAAGATATTAAGTTCTTTTTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;8

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCCACGAGAATATATAAGCTTTAAATGCTACCAAACTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTTCACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATTGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
AAGTAGTGTTAAATTTAACCCTAATTGAGACATTTCTTTGGGAAGTTGTGCATCTGGCAAAGAA  
TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCCTATGGAAGCTTTCAATTTTACAGCAGCAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCACTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTCTGAATCTTTCCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTCGCCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAAATCTATCTATAGCCAGATTGAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTGAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAAATAATTGGTATTC  
CTAACAACTCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTTCAATTGATAGATAATTTGCAACTCATTTTCTTGTTTTATTACAGATATAC  
TTACTTTCTCTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTGACTCTTTTAAACAATCAGCCTGCATTTATATAACTTTTATAAATAAATAT  
AATTTGGGTCAAGTTAAGATATTAAGTTCTTTTTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;9

Table 4

&gt;10

TGGCGGCCGAACATCCATGTTTTAACTAGCACAGACAAAACCTATGTGTTACTATCA  
AAATAAAATTTAGAAAAACAATTTTCTTATAAAATTTTCTGTTTGTATTTGGACTACATAAACTG  
GCTTTAAAATTGAGAAATATGCCCTAAAACCATAAGGAAAAAGCCAACAGAAAGAACAAAAAG  
ATCACAGCAATTAGGCCGTTCTATTCAATTTTGCCATGAGCTAAAAATCACATTCTTCACAAA  
GTAAATTACGCCCTGTTTTTTATTCTTAAGCACTAGGGTTAGGATTGTGATCTGAGCTTTACT  
AAATCGGAAAAGAAAAATCTCAATTATAGAACATTTAGTTTATTTATACCTTAATGCCCGGAGA  
GGTAATATTTTACTTTAAAATGCATAACCCATGTGACATGCTAGGTCTTCCAAAACACTTCTTT  
TGAATGTGTTCTGATCCTTGAAAAATGTGGGGCAGGGGGAAGGGGCCCTAAGAGCTGAGGAC  
TGTGGGTCAGACCCTCATGCCATGGGCATAATGAACATATCAGAGAAGACTAAGACTATGCT  
GAGAGAGAAAAGAAAGAAATTGAGTTCCTTTCTTCCGAGACAAGTCAAATGATAGATTTTGC  
CTTTACAACATAAGTCATGTGAAGATTTATTAACCTCAGACATCAAAGAAGGTCTGCCATATTAT  
AGTAAGAGAAATTAGTGAAACAGTAGGAAAAAGGTGATCTGGGGTTCGAAAAGCTAGGGCAA  
NNNNNN

&gt;11

&gt;12

&gt;13

NNNGAGCTCACCGCGGTGGCGGCCGAGGTACCAGGTGTCATTCCTGCAGCAGGAT  
TTAACAGATGCAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATCAGACTTAAAGAA  
GGAAAGACCTGATTTGACTGCTGTTGGTTTGGTAGTGTCCCTGATCCGGAGCCAGTTTTGT  
GGGAGGGAGTCCCAAAGCAGGTTTGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGACAA  
AACAGTAGAATCGTACCTCGGCCGCCACCCGGGGGCGCACAAACGNNNNNNN

&gt;14

NNNGCAGCCTGGCAGTGCAGTGGGGCACGTCTGCTGTGCGCGTCGCAGTCGCG  
CGGAGCCCCGGCTTCCGACGTGCAGCCTGGCAGTGCAGTGCAGTGTCTGGCCTTTTGTCTT  
GATCCTTGTTAAGGAAATGACCAACCAGTACGGTATTCTCTTCAAACAAGAGCAAGCCCAT  
GATGATGCCATTTGGTCAGTTGCTTGGGGGACAAACAAGAAGGAAAACTCTGAGACAGTGG  
TCACAGGCTCCCTAGATGACCTGGTGAAGGTCTGGAAATGGCGTGATGAGAGGCTGGACCT  
ACAGTGGAGTCTGGAGGGACATCAGCTGGGAGTGGTGTCTGTGGACATCAGCCACACCCT  
GCCATTGCTGCATCCAGCTCTCTTGATGCTCATATTCGTCTTTGGGACTTGGAAAATGGCA  
AACAGATAAAGTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTTCTCCTGAT  
TCCCAGTATCTGGCCACAGGAACTCATGTGCGGAAAGTGAACATTTTTGGTGTGGAAAGTGG  
GAAAAAGGAATATTCTTTGGACACGAGAGGAAAAATTCATTCTTAGTATTGCATATAGTCCTGA  
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GAAAACTTCTGCATACCCTGGAAGGCCATGCCATGCCATTGCTCCTTGACCTTTTCCCCG  
GACTCCCAGTCTCTTGTCACTGCTTCAGATGATGGCTACATCAAGATCTATGATGATAACAT  
GCCAATTTGGCTGGCAGCTGAGCGGCCATGCCTCCTGGGTGCTGAACGTTGCATTCTGTCT  
CTGATGACACTCACTTGGTTTCCAGTCGTCTGACAAAAGTGTACAGTTGGGGCGGTTGGAC  
CGGGGCTTGTGTTACACCCCCCTTTGGATACAGGCGGGGGGTAACAGGAGGTCAATGG  
TTGGGAAGCGAAATTGATGGGAAAAACCGTTTGAAGGGGGGGAATCCTGGGAAAAATGGAA  
TGAAATTGGGGTATAAATGTGGGGGTGTTTCAATATANN

&gt;15

NAGAGAATTTGCAACACGTGGTAGTGAAGTGTGAGGAGTTTGAGGGGTCTGAAGAC  
TGAAAGAGTCGAATGGTTGTTGGCAGGGTGTCTGGTGGATGGTTTCTGTAAGTTCAGATTCT  
TCATAAATCGTGTGAGCGTCGCCGACACCTCTGAGATAAAAGGGCCCCCTTTCGACTAGCCTC  
TGCTGAAAGGACCTAGAAGAATCCCTTAGGATGAAGCTGAGTCTTACCAAGGTAGTTAATGG  
CTGTGCGCTAGGAAAAATAAAAAACCTGGGCAAAACAGGGGACCACACCATGGATATTCCA  
GGCTGCCTTCTGTATACCAAGACTGGCTCCGCCCCACACCTCACCCATCACACGCTGCATA  
ATATCCACGGGGTTCCTGCCATGGCTCAGCTTACGCTGTATCCCTAGCAGAACATCATGAA  
GTCTTGACAGAATATAAAGAAGGAGTGGAAAGTTTATAGGCATGCCAGAATCACTCTTGATC  
TGCTCCCTGCACGATCCAGTCAGCCCTGCCCGGCTGGTTATGTAACAAACAAGTCTGTGT  
CTGTGTGGAGTGTGTCAGGACGAGTGGAAATGACTGTTTCCAAGTTCATGGCAATTGAGAAG  
GCCCTTCAGCCAGACTGGTTCCAGTGCCTCTCCGATGGAGAAGTATCTTGTAAGGAAGCAA  
CTTCCATAAAAAGGGTCAGAAAGTCTGTTGACCGATCACTTCTTTCTTGGATAACTGTCTGC  
GGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAGTGTGATCATTGGAGTGATTGAAGGTGG  
AGATGTGATGGAAGAGAGGCTGAGGTGAGCACGAGAGACAGCCAAGCGGCCTGTGGGTGG

Table 4

CTTCCTTCTGGATGGTTTTCAAGGAAATCCAACAACCCTGGAGGCTAGACTACGCTTGCTGT  
CATCAGTCACTGCAGAGCTGCCGGAGGACAAGCCAAGGCTCATATCTGGTGTTAGTCGGCC  
AGGTGAGGTGCTCGAGTGTATTGAAAGAGGAGTGGACTTATTTGAGAGTTTTTCCCTTATC  
AAGTAACAGAGCGGGGATGTGCCCTGACTTTCAGTTTTGATTACCAGCCGAATCCTGAAGAG  
ACACTACTACAACAAAATGGAACACAAGAAGAAATAAAATGTATGGATCAAATAAAGAAAATT  
GAAACAACCTGGTTGAACCAAGAAATAACATCATTGAAATTAATCTGAAGGAAAAAAGTACC  
AGGAGGACTTTAACCCGCTGGTGAGAGGATGTTCTGTTACTGCTGTAAGAATCACACTCGG  
GCATACATCCACCATCTGCTGGTGACCAATGAGCTGCTGGCCGGAGTCTGCTTATGATGC  
ACAACCTTTGAACACTACTTTGGGTTTTTCCATTACATCCGGGAAGCACTAAAAAGTGACAAAC  
TGGCACAGTTGAAAGAGCTCATCCACAGGCAAGCATCTTGAGATCTTGCAAATACAAGTCTC  
ACTCTTCACACTGAGCCTGTACCN

&gt;16

CGGTGGCGGCCGCCCGGGCAGGACGCGGGAAGAGGTAATTTTAATGCCATTTTCA  
TGGGACACTTGGGAGCTAGATTAGAAGAAGCCAAGACTAGAATCGGGGAGATGAGTTGCAG  
AGGGAAGTGGTGAAGGTCTGAAGGAAGGTAGGAAAAGGTCGGACACATTCCAGACATATTT  
AGGGGTGGAGGTGGTTGGATATGGGGAGTTTAAAGGGGAAGGAATGTGGGGTGAAGTGGG  
TGGTGAGTCAGTGGATATTGGTGACTGAAATCACCCTGCTAGGAATACAGTAGACAGAGAN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

&gt;17

&gt;18

NNNGAGCTCACCGCGGTGGCGGCCGAGGTACCAGGTGTCATTCTGCAGCAGGAT  
TTAACAGATGCAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATCAGACTTAAAGAA  
GGAAAGACCTGATTTGACTGCTGTTGGTTTGGTAGTGTCCCTGATCCGGAGCCAGTTTTGT  
GGGAGGGAGTCCCAAAGCAGGTTTGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGACAA  
AACAGTAGAATCGTACCTCGGCCGCCACCCGGGGGCGCACAAACGNNNNNNNN

&gt;19

ACTTT  
ATTGGAAGAGCAAATTGCTGCTGAAAATTTCTACATTGATCCAGACAAACAAGTTAGAGCA  
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ATACCTTAATTAGCACTGTGCTCTGTGGGATTCTGGTCAGCCTGGCCAGTGGTTTTTTTTCC  
CCTGAACACGCCTGAAAGGGGAGCTCATAATGACTGCTGTGCAGGTGGGCGGGGAGGGGG  
CTTCCTATTTGATTTAGTGGCTGATCAATGCCAGTTACCAATTATTGGTAGCCCCATTTATAC  
ATGGTGGAaaaaaaAGT

&gt;20

NCCGAGGCACCACAATTTTTTTAAGTTCTAAGGTAGCTTTCTCAAAGAAAACCATTTCT  
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AAGTAGAATGTAAGCAAAGTCACAAACCTCCCGTAAGAATTTGGTTCACCAGGACACAGCTC  
CTCTCTTATGAAGGGATGAGAAGCAGACCCCAAACCCAGTGCCACAGTCTCCCTGGAACA  
GCAGCAGGCTTGGGGAATGCTTCCAAAAGGCTATGCCATTCAAGGTCTCAGGTTTTTTGGTT  
AAAAATACAACCTAGGCCAACTGCAGTGGCTCATGCCTGTAATTAATCCAACCTCTGGGAGG  
CCCGAGCGGGTGGANN

&gt;21

NNNGAGCTCACCGCGGTGGCGGCCGAGGTACCAGGTGTCATTCTGCAGCAGGAT  
TTAACAGATGCAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATCAGACTTAAAGAA  
GGAAAGACCTGATTTGACTGCTGTTGGTTTGGTAGTGTCCCTGATCCGGAGCCAGTTTTGT  
GGGAGGGAGTCCCAAAGCAGGTTTGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGACAA  
AACAGTAGAATCGTACCTCGGCCGCCACCCGGGGGCGCACAAACGNNNNNNNN

&gt;22

CGCGGTGGCGGCCGAGGTACAGAGTAGAGAGAGTTCTGCAGGGATGAAGTGGGAG  
ACGTTGATAGGACCAGACCAGACCAGGCCCTTGTAGGCCATGGAAGGACTTTGGATTTTACA  
CCAAGTGCAACAGGTAACCTGCTGGAGGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGAC  
AATTTGAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAAGAAAAG  
GAAGAGAGCAGTTTGAAGCTACTACTGTTGTCCAGAAATATGTAATGGTGGCTTGGCCAA  
GGNN

&gt;23

CGCGGTGGCGGCCGAGGTACAGAGTAGAGAGAGTTCTGCAGGGATGAAGTGGGAG

Table 4

ACGTTGATAGGACCAGACCAGACCAGGCCTTGTAGGCCATGGAAGGACTTTGGATTTTACA  
CCAAGTGAACAGGTAAGTCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGAC  
AATTTGAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAAAG  
GAAGAGAGCAGTTTGAAGCTACTACTGTTGTCCCAGAAATATGTAATGGTGGCTTGGCCAA  
GGNN

&gt;24

NNNNNNNNNNNNCGCGCCCCGTGTTGCGAAGACGACGGGTCCACAGCTGGGCGC  
GACCATAGCGGCCTCCCAGCCAGGGGGGAGCGCCTACGAGAGGGCCTCACGTGATGGTCA  
CCACTAAGAGGAGGCACAACGCCTGTTCCCGCAGAAAGCAGGCGCCCCAAAACGCTTCAGA  
CAGAACCATAGCCAGTAGACAGAGCTCTACTTGACTTGAGGATAGAGAGAAAGATGAAAAGT  
CCAGAGCCGGACTGCATTGACGGAGACCATCACCCAGAGACACTAAGACCGGAGTTAAGG  
TTCTAATGACTTCATTAAGTCTGGCCTTGAAAATGAGAGGTCTGGATGGCTTCTGATTTTCAG  
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AGCATTGTGGGAGTGCCCTCTGTTAGAACAATTCTGATCCAGGCAGGGAGTAGTTTGCTGC  
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TCAGCCTCTGTAGCCTCAATAATTCCAGCACTGAACGCTGATGTACATACACAGCTAAGTGT  
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AGCTTCCGGAGCAATGCTGCTACGTGAACGCGGGACTGCATTTGGCTGCTGTGGCTCATGA  
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&gt;26

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Table 4

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NNN

&gt;27

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GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
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Table 4

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>32

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AGCTGGGTAAAGCTGGGTGGGAGAAGTGAAAAAGGTCAGGTTTACATTCTACGCGGAAA  
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>33

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>34

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>35

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Table 4

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CATAACATTTAGAATAATGATGTCAATTTTTTACAACGAATTTATTTCTAGTGCTTTACTTATA  
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&gt;37

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&gt;38

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&gt;39

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Table 4

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>40

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### Table 4

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Table 4

TTCTTCTTTTCATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTTATTACAGATATAC  
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NNN

&gt;43

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TCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCGGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTCACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAATAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
AAGTAGTGTTAAATTTAACCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
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CTTATATACTTTTGATATGCGTGCCTGGACACTCCTGTAATGGTCCATATGGATGCTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
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CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
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CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTAAGTTCCCTTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

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NAGTATTGGTTCCTGCTGGCAGATGCCCTGTGCTGGGGTCTAGATGACGTGGTGGGC  
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Table 4

CAAGATGCCATTTCTGCATCTCCCAGAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTCT  
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ACTTTTTTTTTTTTTGAAACGGAGTCTTGCTCTGTCCCCCAGGCTGGAGTGCAGTGGCATGA  
TCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCGATCTCCTGCCTCAGCCTCCAGA  
NN

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NNCACGCGTCCGGCTAATGAATCTTGGGGCCGGTGTCTGGGCGGGGGCGGCTTGAT  
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CCCCTTCGGAGGAGGAAGGAAGTCCCCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
TGTTCCCAAGCTTTTTCTCTAGAGAAGATTTGAAGGCGGCTTTTGTGCTGACGGCCACCC  
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TTTTGCAACATTGGACCAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTTTGGCTGTCTG  
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TACAGCAGGAACGAAAAAACATCCGACCCAACTATTCTTGCTGCTTACCGATGATCAAGAT  
GTGGAGCTGGGGTCCCTGCAAGTCATGAACAAAACGAGAAAGATTATGGAACATGGGGGGG  
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ACCGGGAAGTATGTGCACAATCACAATGCTTACACCAACAACGAGAACTGCTCTTCCCCCTC  
GTGGCAGGCCATGCATGAGCCTCGGACTTTTGTGCTGTATATCTTAACAACACTGGCTACAGAA  
CAGCCTTTTTTGGAAAATACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGA  
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Table 4

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ACGGGTTCTTGGTTGTCTCTGCTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTC  
AGATGAAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTGACCTTGCCAGCTGACCTTC  
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GGGCCCAGCCCCAGGCTGCAGCCCATTGCGAGGCACCCGAAAGAACTTCCCCAGTATGGT  
GGTCTTGGAAAGGACATTTTGAAGATCAACTATATCTTCTGTGCATTCCGATGGAATTTCA  
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CGCCTCCTCTTCACTCTCCTCTGATTAGATGAACTGTTACCTTACCCTAAACACAGTATTTT  
TTTTAACTTTTTTATTTGTAACATAATAAGGTAATCACAGCCACCAACATTCCAAGCTACCC  
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CAACTATAACCAGTGCAATATGACACTGACACTATATTAAATCAATAATACNN  
>50

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GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTACG  
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CATAACATTTAGAATAATGATGTCAATTTTTACAACGAATTTATTTCTAGTGCTTTACTTATA  
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NNN

Table 4

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CGGGCCGAGGTACCTCAGCATATATTGGAAGTGTTTTAGAGTTGGTGAGTTCCTCCG  
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GGAGAGAGATCAACTTCCATCGACTCCAGTCTGTCGGGGGCTGATGAGTGAGGTGGCAGCA  
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GAAATCTTTCTCTATAGAAGGCTAACAATCTCTTCGTGTGTTTTCTTGAAATTCTAAATCT  
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TCTGCGTCAGTATGCTTTGAAAGCAAACTGTACGACAAGGAGCTTTACAAATCAAGCATTCA  
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CAGGCGGGCGACCGCAGCGGCGAGGCCGGG

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NCGCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
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CCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
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TCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGATGGAGAGGTTAGAATTTGGAAT  
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GGGACTAGATTAATTGCAAACATTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTAGC  
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CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
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CACATCAGTGCCGAAGAATCGGTCACTAATGTTAAACCACTTAAGGAATTTGAAAATACAA  
CATGCAGCACACTGACAATACGTCAAAGCTTGGATTTGTTCTTCTGATAAAACAGCTAGT  
GGTTGAATAAGTCTCAGATCCTGGAATGAACCAAAAAAAGTCAGATACCAGCATGCTGTC

Table 4

TCCATTAAATGCTGCTCGTTGCCAAGATGAAAAGGCACACCTTCCAACCATGAAATCCTTTG  
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GTCTGTGAACGAGGACCTAATGCACTGCACAGCATTTGCAACGGCAGATGAGTATCATCTG  
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Table 4

CATAACATTTAGAATAATGATGTCAATTTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
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NNN

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NNNNNNNNNNNAGGCGGCCGCCCGGGCAGGTACGCGGGCTATTGTGATTCCCAGTG  
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&gt;59

NNNNNCCGAGGGACGCGGGGAAAGATCAGTTGTTTTACCTTGGCATTCAAAGACTTTTT  
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&gt;60

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Table 4

CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTTACAACGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTTAAAGTTCCTTTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;61

CGCGGTGGCGGCCGAGGTACACGTTACTGTTCCGTCGTATTTTGTAGTCTCTGTTCT  
GCCCTTTGGAACATCTCTTCGGTGTTCTGTGGGATCTCTCTACTGCATTCTACTTTATGTAA  
TAATCTGTTCAATAAATAATTTTTAAAAGGAGACAACAACGCCGAGGTGATCTGGAGGCTC  
CTGGAGGACCTCAGCGACTCAGGTCCAGTCCAAGGAGGGCCGCAGATCAGGCTGAAGGAT  
GGATCCACATGTTTAGAGGAGATCGAGAAATGCAGAAGAGAGATGCAGCAGAGAAATGCCA  
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&gt;62

&gt;63

&gt;64

&gt;65

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&gt;66

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&gt;67

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GATTCACAGGC

&gt;68

&gt;69

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Table 4

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CCCAACACAGTGTATCCTGCCAAGGACAGTGGCCAGCTCCAGTGACCAACAGCCAGATA  
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ACAATTACTGTGAAGTCTGTACCTCTGATACCATTCATATCTCTTGAAACTTGCTCTACCT  
ATGACTGCTTTGAGACTCAGCTGGCTTAACTGGGCCATAGCCCGGCATTGGATCTATAAC  
AGAAACAATTGTAAACGGGGAACGCAGTGAGTACTTGGTCACAGCCCTGGAGCCTGATTCA  
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GTTTGATTGAGACTGAACTGCACCCCTTCGAATGTACAACCCTACAACCACCCTCAATCG  
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&gt;70

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Table 4

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>71

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TCAAATTACCCACAAGTTAAATGCCCATGTTCCAGACCTGTGGCTCTTAGTATCAGGCTTGTG  
ATAGAGAAAAGGCTGCTATGAATTCTACTCAGTGTGCTTAGACCAAAGGAAACCACCACAGG  
GATTTACAGGC

>72

>73

>74

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CTCCAGGTTAAAAAGAAAAAAGCACATTACAACCTCTATGTCAGTGTCTGTCCCAGGTCCT  
AGAAGTGAATAGACCAACCAAGCCCAACCTTCTTAAAAGTAAGACTAGGTGCTTCCTGAT  
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GAGGATTTCATTTTCCAGTCCCCACCGCCTTTTCATTTTTGATGAAGTGCACATGTTGTGG  
GAGCCACTGGTGGGCCCTCAGACACGAGCAATCCTTCTGGCCACTGCCAGTGTCTAATAA  
GGGAATGAACAAGCGCCTATTGGTGAGGGAAGGGGAGTCAGGCGGTGGATGATATTTTTGC  
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>75

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>76

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CCTTCTGGGTGATTTGCATGTGTCTTAGTCTTAGTCACCTTATTATCCTGACACAAAAACAC  
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Table 4

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>77

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GACCGAAGTGGAACCACTGGACCGGAAGCTCTAGCAAGTGTTGCCACCTGGCTACTAGTG  
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>78

>79

>80

>81

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CATAACTTTGTGTGACGAGACTGCACAAGACAAAGCTCAGGCAAGTGGCTCAGTAGTTGGC  
CAGCCCAGCAGGGTCTCTGTATGAGTGTGACCCAGCTGAAGAGAAGAAATGGAGAGCAG  
CAATTGGAGCTTCAGGACCGGCTTGCAGTGTGGCTCCAGGTTATACCACCACTGCCCAAAG  
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>82

>83

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>84

>85

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>86

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CAGCAGCTTACAATGAAAAATCAGAGACTGGTGTCTTGGAGAAAACTATAGTTGGCAAATT  
CCCATTAACCACAATGACTTCAAAATTTTTAAAAATAATGAGCGTCAGCTGTGTGAAGTCTC  
CAGAATAAGTTTGGCTGTATCTCTACCCTGGTCTCTCCAGTTCAGGAAGGCAACAGCAAATC  
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Table 4

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>87

>88

>89

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>90

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>91

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GCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAAACTACAGCCATTGATCAGAATGTAA  
GCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTGCACAAAATTTTCATTTATTCA  
GTAAGAATTTGCATGACTTGTAGCAGTAACAGTTTCACATTTTCATCAACCAGTGTCAAAGAG  
AGGTATTCAGTTATTGGTAGCCTATAAACTGTGTTAGACTGATTATTAATGCTACATTTCTG  
CTCCTGAATGAATATTGAAAAGCATCTAGTGACACCAAGGCCTTATAGTTAGAAAAGGCATC  
TTTCATCTNN

>92

>93

>94

ACGCGGGGAAGCGCGCGGAAGAAAAACCAGCAAGAAGGCGGCGGGGAAGATGG  
CGGTCTGGGGTAGAGTTTGCAAGCTTCTGACTAGGCTAGTCGAGTAACTATTCGGGTCAT  
GGCGTCAAACCTCAACTAAGTCTTTCCTGGCAGATGCCGGCTATGGCGAACAGGAAGTGGAT  
GCCAACTCTGCCCTTATGGAATTGGACAAAGGCCTAAGATCTGGCAAACCTTGGTGAACAGTG  
TGAAGCAGTTGTTTCGCTTTCCAGACTTTTTTCAAGATATCCATTCCCTATTCTTATCAATTCT  
GCATTCCTAAAGTTAGCTGATGTTTTTCAAGATTGGAATAATTTCTGAGGCTATGTGTTCTT  
AAAGTTACCCAACAAAGTGAGAAACATTTGGAGAAGATTCTAAATGTGGATGAATTTGTGAAG  
AGAATTTTTTCTGTGATTCATAGTAATGATCCTGTGGCAAGAGCCATCACCTCCGGATGTTG  
GGAAGTCTGGCATCAATAATTCCTGAGAGGAAGAATGCTCATCATAGTATTCGTGAGAGTTT  
AGATTCACATGATAATGTAGAAGTTGAAGCTGCTGTTTTTGTGCTGCTGCAAACCTTCTCTGCACA  
GTCAAAGGATTTTGTGTTAGGAATCTGTAACAAAATCAGTGAAATGATTCAAGGTTTAGCGAC  
ACCGTAGACTTGAAGCTAAAATTGATACCCATTCTACAGCACATGCACCATGATGCAATCTT  
GGCTTCCAGTGCTCGTCAGCTTTTACAACAGCTGGTCACATCCTATCCGTCCACCAAAATGG  
TGATTGTGCTTTGCACACTTTCCTCTGCTTGCAGCGTCATCTTTGGTTGATACACCTAAGC  
AGATTCAGCTTCTGTTGCAGTATTTGAAGAATGATCCCAGGAAGGCAGTAAAGAGACTTGCT  
ATTCAAGATCTGAAATTAATGCTAATAAAACACCACATACTTGGAGTAGGGAGAATATTGAG

Table 4

GCACTTTGTGAGTGTGCCCTCCAGACTCCTTATGACAGCTTAAACTAGGGATGTTGTCTGT  
CCTTTCCACACTATCAGGGACCATCGCCATCAAACATTACTTCAGTATAGTTCCAGGAAATGT  
GAGTTCTTCTCCAGATCTTCTGATTTAGTCAAATTAGCCCAAGAGTGCTGTTACCATAATAA  
CAGGGGCATTGCAGCTCATGGAGTTAGAGTCCTAACTAATAACTGTTTCTTGTCAGAAAAA  
GGATCTTTTGGCACTGGAACAAGATGCTGTCTTTGGCCTGGAATCCCTACTGGTACTTTGTA  
GTCAAGATGATAGTCCAGGTGCTCAGGCCACTTTAAAGATTGCTCTAACTGTATGGTGAAG  
TTGGCCAAGGGCAGGCCCATCTTAGCCAGTCAGTAGTTGAGACCTTGTTGACTCAATTGCA  
CAGTGCTCAAGACGCTGCCCGGATTTTGATGTGCCATTGCCTGGCAGCCATTGCCATGCAA  
CTGCCGGTGCTGGGTGATGGGATGCTTGGTGACCTCATGGAGCTGTACAAGGTGATTGGAC  
GATCAGCCACAGACAAGCAACAAGAACTTCTGGTGAGTTTGGCTACTGTGATTTTTGTTGCA  
AGTCAGAAGGCATTGTCTGTGGAAGTAAGGCAGTAATTAAGCAGCAGCTTGAAAGTGTCTC  
CAATGGATGGACTGTATACCGTATTGCCAGACAGGCTTCAGAATGGGTAATCATGACATGG  
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ATAGTTTGAAGGAGTTTTACATGCAGAACAGTGTCTCACTGGGTTGCAAGAGGAAATTAT  
AGTTCAGCACTTTCTTGCAATTGCTGAATCTTTAAATTTCTATCACAAAGGGATTGCTTCCTTAA  
CAGCAGCTAGTACACCACTGAATCCTTTAAGCTTTGAGTGTGAATTTGTAAACTCAGGATTG  
ACCTTTTACAAGCCTTCTCTCACTTATCTGTACTTGTAAATAGCCTGAAGACAAGCCCACCAC  
CTGCAATTGCCACAACAATTGCCATGACCTTAGGAAATGACCTCCAGAGGTGTGGTCCGATC  
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TACCAGGCATCTTTTGATGCTGACTCAGCACTTTGAGGAATGTTGAACTACAGCAGCAGAG  
CTGTTTACTGATATCTCATGCAATAGAAGCCCTGATTTTGGATCCAGAATCAGCAAGTTTCCA  
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TGCACACAGCATGCCTCTGCAATGCCATCATTGCTTTGCTGAAAGTTCCCCTTTCTTTCCAGA  
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AATCCTGCAGAGCCCATGCTGTCCAGAATAACCAGCAGCTGGCGCTAAAGGTAGAGGGAG  
TGTTTACGCACGGATCTAAACCAGGACTCTTCGCAAAATTCAGTCTGTCTGTCTGAATGTTT  
CTTCCACACTGCAGAGTAAATCTGGACAAGACTACAAGATACCCATTGACAACATGACCAAT  
GAGATGGAGCAAAGGGTTGAACCTCATAATGATTACTTCAGTACTCAATTTCTGTTGAATTT  
GCTATCCTTGGAACACACAACATTACAGTGGAAATCTTCTGTGAAAGATGCCAATGGTATAGTA  
TGGAAGACTGGTCCCAGAACTACCATATTTGTAAATCCCTGGAAGACCCTTATTCCCAGCA  
AATTCGCTTACAACAGCAGCAAGCCCAGCAGCCATTACAGCAGCAGCAGCAACGCAATGCC  
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TGATTTTTGTAATGTAATATTCTGGAAAAATTTTGTCTTAAAAATTTTGTCTGACAGCTGG  
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GGAGATCAAGACCATCCTGGCTAACACAGTGAACCCCGTCTCCACTAAAAAATACAAAAA  
ATTAGCCAAGCATGGTGGCAGGCGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGA  
GAATGGTGTGAACCTGGGAGGCGGAGCTTGCAGTGAGCCGAGACTGTGCTCCAGCCTGGG  
CGACAGAGCGAGACTCCGTCTCAAAAAATAAATAAATACATTTTGTCTGAAAAATAACTGGA  
AAAAAAAAAAAAA

&gt;95

ACCTGTATGATAACATTGCAGTCAAACATATCTTGTGACAGGACAGTTTTTTGTGGG  
GAGGAGAATTAGACCAAGTTCGGAGATATATTTTAGGAACTAAAAGGAACGTAAGATCTGGG  
GTAGGGGGATGAGCAGCTCCACACCCTGCTCCTGTGTGAGCTGTGCGCTCCCGACTGGGA  
AATGTCTAACTCCATCGAAAACATGAGATGAGGGGCAGGGAAGGGGCTACTTCCAAGCCTT  
TCATTATAATACTGTGTGAACCTTTTGCATATTTTCAAGAAAGAAACCAGTAAGGTGGGTTT  
AGTTGTGGGCTCATCCTGACTTAGAAAATTTTAAATAATTTAGCCCATTGAAATGTTGATAATA  
TAAGGCATGCATGAATAATAATTTTGTCTCTT

&gt;96

&gt;97

NTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGA  
GGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTATGCATAACAAGGAGGGAAAGAG  
AATGCAGAGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACACTTGAATTGCAGAGGTCA  
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AGCTCCAN

Table 4

&gt;98

NNCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGATGGCTTCAAGATGATTTAG  
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TCTGCTTGTCTGTAAATATTAGGGTTCCTGAGTCCTTACCTAGATTTTCTTCTCTTACTCC  
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GCCTCACTTGGATGCTCTGCAGGCCTAAATAACCTTTGCGGACAGATTAACAGGGAAAAAAT  
ATTAATAGGAAAAATATAGATTTTATCTGATGTTAATATTTCTATGTGGCATGGAGGACTTC  
ACAGAAAAAAGTGAAAACCTCTAAAGCAGTTAGATTTGAGAATTATATACCATTTTAAACAAGAA  
CAATACATTGTGGAGACATGACAAAGGAAAAAGGGTTTGGGCTGGAAGGGGGATGGGAAA  
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&gt;99

&gt;100

AGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGCAGT  
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CAAGAATATTTTCAAGGTAAATTAAGAATTAATTTCTTCTAAGACTATCCAATGTGTCTCAATCT  
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CTGTTGTACCTGCCCCGGGCGGCCGCCAC

&gt;101

NTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGA  
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AATGCAGAGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACAACTTGAATTGCAGAGTGCA  
AGAGTTTAAAGAGTTTGGGATGGAAAGAAATCAAGAATTGGGCTCGGCCGCCACCGCGGGG  
AGCTCCAN

&gt;102

ACCATAATAATGCAATTAACAAAATCCAGGATTTAAGGATTTCTATAAGATTAAAAAA  
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ATAN

&gt;103

NNNGAGAAGCCATGTGGGACTCCTGCCCTGGAGAGAGCCCAGAGTGGAGGGAGG  
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TTAAAGCCTCACCAGTACCAGGAAGTCTTGATAGAGCCATCTAGTAATTCTTAAGTCTTACC  
TCATCCAACCTTGTGTTTGAATCCTGCAGTGAGCACAGCTTGGCCTCACCTCCCTCTCTAT  
GCCCTCACCTTTGCAGGAGACTCTCAATTTCTCAGTCCACATCAGCTCTCAGACCACCAAAG

Table 4

CAAGGGTTATTTTTCTAAAAGACATTGGTTCCCATCGCTCCTCTGACTAAAGGTCCTACTATG  
GCACATTTGCCCTTGGCACTCAAGGACCTTGCAATCAGGCTGAGAACCTCATGTTCTCAAAC  
TCAAGACCANN

&gt;104

&gt;105

ACTTTCTAGGTATATCATGTGCCCTAATGTGCTCCTAATATCATAAATGTTTACTTTCC  
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GGGAC

&gt;106

GTCCGGTAGTGGGCAGCGATCAGGGCTGGGGCTCTTTCCTGAGTTGTGTCAGGTG  
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GCCATCTTATCGCTCTGCATTAAGTAAGATGAGGATTCACCTTAATTTATGGGCACAATTTA  
GTTTCTTCCACACAAATTTAGGCCTTAACTCTTTTATTTTTCTACAGTGGGGGTTTGGAGTA  
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&gt;107

ATAATTGCAGAGAAAGCTTGCCAACGGTGATAAGTAGGTTTGTCTAGCAGCACTGAT  
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&gt;108

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AGAATGAGTAAACCATATGGGGCAAATAGCATATATGAGCTAAACCAGTTAACTGTTAACCA  
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&gt;109

CCACGCGTCCGAGACACTTCTCTGACTAACCATAGACTATGTGGAAAATGGTAGCTG  
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CTGTGTTTTGATAACTGAACTTGCTAATAGCTGGCCACTTGAGTTGCTTCTTCCAGCTCTTTG  
TTTGTTTTAAATAAAGAGATTGAGCCAGTAATAATGGGAAGAGCTGCAATGACTTCCCCAGT  
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&gt;110

GTGCTGCCTGCACTGTGACTAAGACTTTCTGGACTATCATCATGTTTAGGAGTTGAT  
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AAACATTTTTCTGGAAGAAAAAAGTGAACATCCAACCTCCATTTAAACAAATTTGATTGTT  
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AGACACTATATAAACTTTTTCTCCTTTAAATTACCTGGTTTATATATTATCTCCTGTAGCCTGC  
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&gt;111

CGCGTCAGTCAGTCTGACGGTCAGTGGATCGGTGGGTTTATCTCAAGGCCTGAGTA  
GCCGGTAACAAACGAGGGTTCCCGGGATTGGACCGACGCAGCCATGGTAGGTCCAGATCC  
CGTAGAAGGGGAGCGGGTCCCATAGGTTACGGCCGATTCTGGAGCTTCTGGACTGAGGG  
CCGCGGTAAGCAGTGGTCTGATCAAAAGAAAGCTAACTGCTAGATCTGATCGAGTTAAGAGT  
GTGGATCTGCATCCTACAGAGCCATGGATGTTGGCAAGTCTTACAATGGCAGTGTGTGTGT



Table 4

TTGGAATCATGAAACACAGACACTGGTGAAGACATTTGAAGTATGTGATCTTCCTGTTGAG  
CTGCAAAGTTTGTGCAAGGAAGAATTGGGTTGTGACAGGAGCGGATGACATGCAGATTAG  
AGTGTTCAATTACAATACTCTGGAGAGAGTTTCATATGTTTGAAGCACACTCAGACTACATTG  
CTGTATTGCTGTTTCATCCAACCCAGCCTTTTATTCTAACTAGCAGTGATGACATGCTTATTAA  
GCTCTGGGACTGGGATAAAAAATGGTCTTGCTCACAAGTGTGTTGAAGGACACACCCATTATG  
NNNNNNNN

&gt;112

NNNNCCGAGCGGTTTGCATCGCCAGCTCGCGCAAGGCCATGAGGTTGGTCTGGGT  
GAAGAACGCATCGATGGCGGCACGGGCCTGTTCCGGCACGTAGACCTTGCCGTCACGCAG  
ACGCTCCAGCAATTCGCGCGATGGCAGGTCGATCAGCAGCAGCTCATCGGCTTCCTGCAAG  
ACCCAGTCAGGCAAGGTCTCGCGCACTTGCACGCCGGTGATGCCGCGCACCTGGTCGTTG  
AGGCTTTCCAGATGCTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAGAGAGCAATT  
CCTGAATGTCTTGCCAGCGCTTTTCGTGGCGGCTGCCGGGGGCGTTGCTGTGGGCCAGTT  
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&gt;113

NNNCGCGGCCAGCCGACTGGACCCCTTAGCCTCGAGGCCTTTGCTGAAGCTCATG  
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CAGCTGCTTCCAGCATCTGGATCCAGCCTCACCTGAAGCCAGCCACCTTCTGGACTGCAAA  
GTCATTGTCAACACCGAAACACAGGGTTTCTGACCATTGCAACCCAGGGTCCCGGCGTGTC  
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AGCTAGGGACTGTGGNNNNNN

&gt;114

NNATAGTGATGAAGCTGGATAGTTAAACAGAACTTGAAAAGCAAGATGTGGAAC  
GGGATATAGGATTTAGAGTTTAAAGAAATGTGACATTTCTTAGTGATTGTCCTTCCGATG  
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CGATCAAGTCTTTATGAAAAGGAAAGAAAAATTTGGAATGCACATCTCTGTCCAGCTCAATTC  
CTCACTCCTTTTTAAGATGGAGAGCTGTTAGGTTTGTCTACACAGTAGGAAACACCTGATTA  
AATAACAGCATGGAGCCAATCTTGACAAAGAAATTGGCTGCATCCAATAGAATCCCAGGGCC  
GGTCGTGGTGGCTCATGCCTGTAATCCCAACACTTTGGGCGGCCGAGGTGGGAGGATCACT  
TGAGCTTTGGTCTCAGGGCTTTGAGACCAGCCTGGACAGCATAGTGAGACCTCGTCTCNNN  
NNNNNNNNNN

&gt;115

NN  
TCTTCTCTGTTTGTGTTTTTTTTTTTAAATTTTACTCGTTTCTTTATTAATATAGAAAAGGAGCCC  
AGGGCAGCTGGACCAGTAGTACAAAGCACCAGGAGTTAATACCATTCTGGTGAAGGGGATG  
GTTTTACAAAAGTGAAGGAGCAGGCAGGAGCCACCAGGTTCTGAGGCCAGGCCACGCCTAC  
TGCCCAGAACCCCTGAAACGGCTCCCTGGGAAAAAGCTGACAGATGGGTGAGGGGTGGATT  
GAGCTGGAACCATGGGGACAGATGGCAGGGATAGAGGGTCATGCAGTGGGAACCAACCA  
GTGGCTGATAAGGACAGGGAACCTTGTGGCTGGAGGCTCCCCATTGGGCCATGGGCAGGGG  
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CGGGGATGAGACACAGGCAGGACAACAGCACCCCCGCATAGTGGGGCTAGAATGTGGGAC  
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CAGCCTTAGCAAATCAAGTGTGCAACAAGCAGAGGGTGTGGCAGACCTGGGCTCTAGCCT  
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GGACTCTGCAGGTGAAGGGAACCTCAGGACCTGCTCTTGGCAGTTAAGCAGACCCTGGATG  
GAACTGGTATGGGATGGGGTGAAGTGGGGGATGGAGGAGGAAGGTGTTCTTGATGGAAC  
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GGGTAACACTTGGCAAGGAGTGGATGGGTGGCATTGTGCAACCCTTTATGTTCTTCCCTGG  
GGGTGGCACTCAAGGCCTCTTGTGGCTTCTGCCTTCAGCCTTCAGTGTAGGGTCAAGAGTG  
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Table 4

GTTGGTGAGGAAAGGACAGAGTGGGTGAGTAAGCAGACAGGGAGGTAAGAGTGACTCTCT  
GGCTTTCTCCTCTTCTCCTCAGAGAGCAGCTCAATCAACTGAGTCGCAGATCTCCTCCACC  
ACAGCATTGAAGATGTGTGGCTGGTCAGCATAGACATGGTGGGAGGCACCCTTAATCTCCA  
TGTCTCGGACATAGGAATCCGGCCGCTGCATCTTCACCTTTTTTCCCGTACTGGTATCTATC  
CAGGTGTGCGACCCGTAGATCATAGTGATAGGCACATCTTTTGAATCAAGTGAATTCGCTC  
CAGCATAGGGCGCCGGCCAGCCAAAGGACTCCATCATGGCTTTGAATGCTGTCTCACCAC  
CTGGGATTCTGTGCGTTGCAGTGGTAAATATACTCTGATATGGTATCATCTTCAAAGAAGTCT  
GCAAACCTTGCCTTTGAAGTCCGGCCGGAATCGCTGCACCAGACCAGGCCCCAGGGCCCA  
GCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACAGATGCCACGGCTTTGACCC  
AGGCTGGGGGTGCACGGATCTCACTGGGGTTAGTTGGTGGAGGGGAAAGCCCCATGGGT  
CCACCAGGATGAGGTGTTAACTCTATCAGGGTACTTGATTGAGTAAGAAGTGGCCAGGAAT  
CCTCCCAAACCTGTGCCCCAGGAGGATCATGCTGGGGATCCCCATGGTCTCCCGCCATGTCT  
CTATCGATGTCACAACTCATCCTCAGCCCCCTCCGGTCCCTTGGGAATGCTGGCCTTGA  
GCTTCGCCCGAAGCCAAGCAGATCGAAGGTGTGCAGTGTGCGGCGGGCACTCAGTGAGTC  
CATGTTGAGGATCCAGAGACCCACGCGCCGCCAAACCATGCACCATCACCAGGGGGTG  
CGGTCGTTTTGCTCGGGGCTCACAGTCACCGTCCAGATCTTATTCTGGTTTGGGAGGGATA  
CATATCTGGCCAGGAACCTTATTCTGGAGACACTGGAGGATCCTGGCTTCCACATTCTTCAGC  
TGAGACATGGAAGTGGGGCGCCACGTGGGCAGCCAGCTACTCAGCCAGCCTTGAGACTGC  
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CCCTTCTGTCGTTCTCTCGCAGCCGTAGTCGACGCGGCCGCGAANN

&gt;116

CCGCGGTGGCGGCCGGTAGCGCCGGTAGGCGGTGTGGACCAGGGGCTCGTCCGT  
GGCGGCCAGCGAATTGGTGACGACGCTGATCTTACGTTGCGCCCGCGGATCTCGCGCAT  
CACCTCCAGCCCCGTGGCACCCGGAATCAGGTAGGGCGAGACGATGGTCACTTCGGAACG  
CGCGCGGCGCATCTGCTCGACCACGTTGTAGCGCACGCTGTCGACATCCAGCAGCGGCAC  
GCCGCCGTACGACGCGGTCTTGCCGATCACGCGGTGAGGCGAATCGGCATACGCCTCGGC  
GGTGGTCCAGATCAGGCCGAGCTTGCCGCGCTTGAGGTCTTCGACCATCGGGCTGTAGC  
CGAN

&gt;117

TGAGCTACCGCGGTGGCGGCCGAGGTAATGAGCCACTCAGGACTGTCTT  
AAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAACGTCAGTTGCTGGCTTTTCTAAAT  
TTGTCTTCTACCTCAGATCTAAACATTTGATAACATTAGGGCAATATCATGGCAATCGTGGC  
CCAGTAAACCATAGCAAATGTTTTCTCCCTAGGACACTATCTGTTTTACAGGAAAATTTTT  
CTCATAGAAAACTGTAGGAAAAGCCATGGATGAGCTGAGAAGACCAAACCTATCTCTTGA  
AAACAACAGTAGGGAGCGTGGATTAGAATGTCTTGGGTGCGTGAAACAGGCAGACAATCCT  
GAAACATCTTTTCTGGGGACGTAAGGCATGAAAAATTTCTATACACTTAGGAGGGCTTCTAG  
GAAACAGGAAACGANN

&gt;118

ACCCCTAGCAGAAACAGAGTTTCGCCATGTTGGTCAGGCTGGTCTCGAACTTCTGT  
CCTCAACTGTTCCACCTGCCTCAGCCTCCGAAAGTGCTAGGATTACACGTGTGAGCCACTGT  
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ATCTCTTCGGGAGCGACGCCGACAGCGAAGCTGAGCGTAAAGATTCTGATTCTGGATCTGA  
CTCAGATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAAAGTGATC  
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CAGAAGCTTCTGAGCGTTCTGACCATGAGGACAATGACCCCTCAGATGTAGATCAGCACAGT  
GGATCAGAAGCCCCTAATGATGATGAAGACGAAGGTATAGATCGGATGGAGGGAGCCATC  
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TTCTGATGATGAACCGCCGGTAGCTTCTGATAATGGATGATGAGAACACAGAATTCTGGATG  
AATGAAGAACAACACAAGCTGTTCTGGATGAAGAGAAAATCGCAAATTTCTGATGATGAAGG  
GCCAAGGGCTCAAATTGAGAACACAGGGATCAAATATTACAAGAGACGGCTCTTAAACCAA  
GACCTGCCAAAAGACGCGACAACACAGACGAGCGTCCGAAAACAAAACACAGAAAGGAGAA  
GCTATGGAAAAAAGAGCAAATGACAAGCGAGGGTCAAAAAAATAGGGAGGACGGAGAATAT

Table 4

AGGAAGGGGAGACGAACAAACCACGAGGGGTGGGGAGAAACAACACCAAGCAGAAGGGAG  
ACGAGAGATGCAAGCACAAACAAGAGCACGAGCGACCATAAGAAGAAGAAGACAAGCAAGA  
AGCAAATGAGACAAACACACCTGACAACGAACAATGATAAGAAGCAAAAGCAAGTAATCAGC  
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NNNNNNNNNNNNCGGAAGTCTTCTAGAATTAATTAACGCGGGGTAGCGGACTACGC  
TCTTCCAGCTGTGCGACCTGGGAAATTCTCCTGTGCTAAATCCCGTGGCGCTCGCGGGTGT  
CGCCGCGGTGCATCCTGGGAGTTGTAGTTTTTCTACTCAGAGGGAGAATAGCTCCAGACG  
GGAGCAGGACGCTGAGAGAACTACATGCAGGAGGCGGGGTCCAGGGCGAGGGATCTACG  
CAGCTTGCGGTGGCGAAGGCGGCTTTAGTGGCAGCATGAAGCGCACCCCGACTGCCGAGG  
AACGAGAGCGCGAAGCTAAGAACTGAGGCTTCTTGAAGAGCTTGAAGACACTTGGCTCCC  
TTATCTGACCCCAAAGATGATGAATTCTATCAGCAGTGGCAGCTGAAATATCCTAACTAAT  
TCTCCGAGAGCCAGCAGTGTATCTGAGGAGCTCCATAAAGAGGTTCAAGAAGCCTTTCTCA  
CACTGCACAAGCATGGCTGCTTATTTGGGACCTGGTTAGGATCCAAGGCAAAGATCTGCTC  
ACTCCGGTATCTCGCATCCTCATTGGTAATCCAGGCTGCACCTACAAGTACCTGAACACCAG  
GCTCTTTACGGTCCCCTGGCCAGTGAAAGGGTCTAATATAAAACACACCGAGGCTGAAATAG  
CCGCTGCTTGTGAGACCTTCTCAAGCTCAATGACTACCTGCAGATAGAAACCATCCAGGCT  
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GCAGAGCAGCATACAACGTAACCTTTGCTGAATTTTCATGGATCCTCAGAAAATGCCATACCTG  
AAAGAGGAACCTTATTTTGGCATGGGGAATGGCAGTGAGCTGGCATCATGATGAAATCT  
GGTGGACAGGTCAGCGGTGGCAGTGT

&gt;120

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TAGGCTGGGTGCAGTGGCTCACGCCTGTAATCCAGCACTTGGGAGGCCGAGGCA  
GGCAGATCACTTGAGGTCAGGAGTTCGGGACTACCCTGACCGACATGGAGAAACCCTGTCT  
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CAGGTGTGGTGGCTCACATCTGTAATCCAGCACTTTGGGAGGCCAAGGCGGGCAGATCAC  
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ANNN  
TGTTGGAATTTTAAAGAAAAAGAAAGGCAAGTAGCACTCAGATGGCCTTTTTTTGTAAAGTGA  
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GCAGTAATCTATTACTTAAAGTCTCACTTTCCATACACAAGAGACAAAGAATCTAGTCAAAAGC  
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GGGAACCTGTTAAAGCCTTACACCAAGGAAAACATAAACTTGTACCTCGGCCGCCACCGCGG

&gt;122

ACCGCGGTGGCGGCCGAGGTACACACTGGATCTCCTTACTCATTTTTAACCTGAC  
TGGGACACCAGAGACATGCTGCATCTTGTATTAGGTGTTTCATCTTGAGAATGGCTGTGCT  
CCTGAAATATTTCTGTGAAGAAAATTGTTACAATCCCATACATCACTGGCTTTTATTATTA  
ATTGAATGTTGGCTGGAACAATTTTAAACCCCAAATTGTGACAAACAAACTATATGGAAAAG  
GNN

Table 4

&gt;123

TTGGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGACCGATGGCGCGATTTCAC  
CAATCCTGCAGAACGGCCATACAAATTGCCAGACCTGTGCACAACGCTGGACACCACCTTG  
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GTTGTCTGAAACCGCTGTGTCCAGCAGAAAAATTAAGACACCTAAATAGCAAACGAAGATT  
CATAAAATAGCAGGAAGCTATACAGGACAGTGTGACGGTGTGGACCACAAAACGGGAGG  
ACCGCAGACTAACACGAAGAGAAAACCAAGTATAACATCAGATATGCGTGGACCAAAGCCC  
ACCTTGCAGGAAATTGTATTAGATTTATGTCCTTACAATGAAATACAGCCGGTTGACCTTGTA  
TGTCACGAGCAATTAGGAGAGTCAGAGGATGAAATAGATGAACCCGACCATGCAGTTAATCA  
CCAACATCACTACTAGCCAGACGGGATGAACCACAGCGTCACACAATACAGTGTTCTCTGT  
GTAAGTGTAAACAACACACTGCAGCTGGTAGTAAGCCTCACGGGATACTCTGCGACAACTA  
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AACTCCTGGGCTCAAGCAATCTTCCCGCCCCACTTCCCGAAGCCCTAGGATTACGGGAGTG  
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CGGCCGCTCCACCGCGGTGAGCNNNNN

&gt;124

&gt;125

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CAATGAAACGTTAAAAATAGCCAGATCACGTAGAGCTCTCTAGCCTTTGGTAAGAAAAGTGTT  
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AGTAGTAGTTAGACTAAAGAAATATTTAGGAGGTAGAAACAACAGGCGCTGTTGATGTGATG  
AACTGGATATAGTAGATGAGAAAAATTAATAACAGGAATAAAGATGACTCCTACCTATCTGG  
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CTGTACCTCGGCCAGCCACCCGCNNNNN

&gt;126

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACCTCTAGCGGACACCTCGTGGA  
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CCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
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TCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
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AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
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AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTGTACAGTAT  
AAGTAGTGTTAAATTAACCAATTGAGACATTTCTTTGGGAAGTTGTGCATCTGACAGGAA

Table 4

TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCTATGGAAGCTTTTCAATTTTACAGCAGCAAATGAAGATTATAA  
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CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTGAGAACTCTACAAAATAAAGTGCT  
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CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
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NNN

&gt;127

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CGTAAAAATGCTATTATTTACAATTCATATTTAATATAAAAAGAGTATGTTAAAAATAAAT  
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NNNNNNNNNN

&gt;128

&gt;129

NNNNNNNCCGCCCGGCAGGTACAGTCAAGGCCGAAAACCACTGAGCTTTTCCCTCT  
GCCTGGCACATATCCAAGTCCCTGCCTTCTTCAAGCTGATGAACTCTTCATATGCCTCCTTTT  
GGGTGTCAAGTGGAATGTCACTTCTTCTAGAAGCTTCTGGCTCTCCAGCCTGGCCAG  
GGCTCCAGCTATGAGCTTCCATAACACCCCTAGTTTTCTCACATTGCCCTCATAGTATATGG  
AATTTGTTCAATTGCCTGGCTTCCAACAGATGCCAGCTCCAAGAAGGCAGGAGCTGCT  
TCTGGGTATTGCTTGCCATCAAGGCCCTCACACCAACCTAATGCCTGGGCCAGAGTAGGT  
GCTTAATAAAAAATTGTTTGAGGCCGGCGTGGTGGCTCACGGCTATAATCCAGCACTTTG  
GGAG

&gt;130

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NGAGCTACCGCGGTGGCGGCCGCCGGCAGGTACCTATCTGCAGAACGGTCATT  
AGCAGTTTTTCCAAACAAGCGACTTTTAGCAAATTAACCGTTAATTTAATGAGATTCAAAGT  
TAATAGCCATTCTTAACGTTTTATAATTAGAAGCTGTTATATAATTAGAGCTGGACACCCACAT  
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Table 4

TAATACAATTCTCTGCCAGCCAGTTGCTGCATCAAAACAGTTCTGATACACACACCTAAAGTC  
ACCACTTCCTCATTCTGGTCCCCAATAACCCTATAAGCCTCTCCCCTTGATAGGTGACCTCTG  
CCCTGTGAAGGGTTGGCTCACCCCAAGATTCATAAAATAAGTTGTCTGTTTGTATGAGAA  
CAAGGCTTTTAAGT

&gt;132

GTGGCGGCCGAAACCGTGGTGGCCGTGATCGTGCCGTTGGCGGACGGAACCTTGA  
AGATGTTCTGGGCGGCCAGCACAAATCGCCGCTTGCCGACGATGACATTGTTGGCCTTCAG  
CCCGTCAATATCGCCCTTGATGTCGATGTTCTGGCTCTCCTCATCATGGCTCAGCGCAATGG  
CGGCGTTCGCCCTTGCCGGTCGCCTCCACGAGGAACAGGGCTGCGGCCGTGACACATCGC  
TGGACGCGAGGGTCAGGTTGCCCTGAAGCAGCCCCCTTCTGTCTGGGTGACATCACCGC  
GCAGCCGCGTGCCGCCGGAATGAAGTGGATATTGCTCAGGCGTTTTCTGCTCTGTGCAG  
GGCAAGTTCCGTGGCAAGATCGGCCCGCACGCCGTGAGGAACGCCAGACCGGATACTT  
GCCGTCCGCGCGTCTTGACAGAAGTCCGTTGAAGGAGAACGCGCCTTCTGAGCTTGCCC  
CGGAAAGTTTGCCANN

&gt;133

GTGGCGGCCGAGGTACGATAATTCATGCCAATTTCTTTGGGAATACTTGTTTCTGAT  
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TTGCTGATTCTAACAACAATGATATCACTGGAGAAAATACAGGTAGACGCAATGCTCCCTTG  
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&gt;134

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GGTCGTGGTGGCTCATGCCTGTAATCCCAACACTTTGGGCGGCCGAGGTGGGAGGATCACT  
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NNNNNNNN

&gt;135

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TTCCAGTAGCCACTAATGGGGAACGATTTCTTGGCAGGAGCTAAGGCTCCCCAGTGTGG  
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CTTGAAATCACGAATGCCACCCTTCAGTCAGAGGAAGATTCAAGATACATGAAACCAGGAAA  
AGAACTGAAAGTTTTGAGTTACCCTGCTCATGAACAAATTGCACTGCTGGTTCCAGAGAAAC  
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Table 4

GAAGGGTTTTATAAAAGCACATACAGAACTCTTGGTGGTGAAACAAGAATTCTTGCAAGTAACA  
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CTTTTCTTCCAAAGGATAAGTTGCAAGAGGTGAAACTATTTTTGAATCTCTTGAAGCTCAAGG  
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&gt;136

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AAGGGCTCAGCAAATTTCTCTGTAAACAGGATGCAGACCCCGCGT

&gt;137

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GTTGAGCCTCTTCTGCTGCCGCTCGCGGCCACCTTCGCTGGCACCCGCGGGCCCGCT  
GTCGCTGCCCTCTCCCGGCCCAAGCACCTCGGCCCTCTCACCTCTCGCCTCTGACGG

Table 4

TGAGCGCGGCCGGGCCCAAGCATAAGGGCCACAAGGAGCGGCACAAGCACCATCACCACC  
GCGGCCCGCGATGGTGATCCAGCTCCTGCGGAACCGATCTCAAGCACAAGGACAAGCAGG  
AAAACGGCGAGAGGACTGGAGGGGTGCCTCTGATCAAAGCCCCAAGAGAGAAACACCAG  
ATGAAAATGGTAAAACCCAGAGAGCCGATGATTTTGTCTTGAAGAAAATAAAGAAGAAAAAG  
AAAAAGAAACACCGAGAAGACATGCGAGGAAGACGCCTTAAAATGTACAATAAGGAAGTACA  
AACCGTCTGTGCTGGCCTGACCCGCATCAGTAAAGAAATTCTACCCAAGGACAAATAAATA  
GCACTTCAGGACTTAATAAGGAGTCTTCAGGTATCTGAAAGATGAACAGCTGTGCCGATTA  
AATTTGGGTATGCAAGAATATCGGGTACCCAGGGAGTACAAACACCTTTTATGACTACCA  
GGAACATTCTATTCTAGAAAATTTCTTAAAAACAGGTAATAATTTAGCAACTTTATTCATGAG  
GAACACCAGTCCAATGGTGGTGTCTTGTCTTCATGCTTACATGGATGAACCTCTCATTTTTG  
TCTCCAATGGAGATGGAGAGATTTTCTGAGGAGTTTCTTGCTTTGACATTCAGTGAAAATGAG  
AAAAATGCTGCTTACTATGCTTTAGCAATAGTGCATGGAGCGGCTGCTTATCTCCAGACTT  
CTTGGACTACTTTGCTTTTAATTTCCCAACACTCCAGTGAAAATGGAATTTCTGGGCAAGAA  
AGATATTGAAACAACCACCATTTCAAATTTTACACTCAGGTCAACAGGACATAGTCTGTGG  
CACCTACCGAGCAGGTCTATGCGGCAGATAAGTCTCGTTGGAGCAGTAGATGAAGAAGTT  
GGTGATTATTTCCAGAGTTCCTTGATATGTTAGAAGAATCACCATTTCTGAAAATGACTTTG  
CCCTGGGGTACACTTTCTAGCCTCCGACTCCAGTGTAGGTCCAGAGTGATGATGGGCCTA  
TAATGTGGGTAAAGGCCAGGAGAACAGATGATCCCTACAGCAGATATGCCAAAGTCACCCCTC  
AAAAGACGACGATCAATGAATGAAATAAAAAATCTCCAGTACCTACCTCGGACCAGTGAACC  
CCGCGAAGTTCTCTTTGAAGATAGGACTAGAGCTCATGCTGATCATGTCGGTCAGGGGTTTG  
ACTGGCAGAGTACGGCTGCTGTTGGAGTTTTGAAAGCTGTACAATTTGGTGAATGGAGTGAC  
CAACCTCGCATAAACCAAGATGTGATTTGTTTTCATGCTGAGGATTTTACTGATGTTGTACAA  
AGACTTCAGTTAGATCTTCATGAACCTCCAGTTTCCAGTGCGTACAGTGGGTAGATGAAGC  
TAACTAAACCAAATGAGGCGGGAAGGCATTCTGTTATGCTAGAATTCAGCTTTGCGACAATG  
ATATCTACTTCATCCCTAGAAATGTCATTTCATCAGTTCAAACAGTTTCCGGCGGTGTGCAGCT  
TAGCCTGGCATATAAGGCTTAAACAGTACCACCCTGTTGTGGAAGCCACTCAAACACAGAA  
AGCAATTCTAACATGGACTGTGGTTTAACTGGAAAGCGAGAATTAGAAGTTGACTCCCAATG  
TGTGAGGATAAAAACTGAATCTGAAGAAGCATGCACAGAGATTCAGCTGTTAACAACCTGCT  
CATCATCTTTCCCACTGCATCAGAATTAATCTACAGCAAGATCAGAAGACTCAGCCTATTC  
CAGTTTTAAAGTGGAAGTAGACTGGACTCTGACCAGCAACACAATCTGCAAGAACATTCA  
ACCACTTCTGTGTGATATGTACATATTCAAACACATTTTTTAACTTTTTTAAATTTTGATGTAA  
GTTATAGTTTTATACTGGCTTAAGTTAAGTTTTATTGGAGAAATCTTGCCTATAATTCTATAA  
AGAGAAATGACATTCCACAAATGTCAAGCATATCTTTTTTACACAGATTATGCAAAGTTAAGA  
GTTGTATCTTATCCCGTTAGTACAGTATGTAATAGTGGGTCTGCTGCTACTTTCTGTTTTAAG  
GTGTGAGGTAACAATTCAATCTCTTCTCAAATCAAATGAGAATTCCTGGAATAACAGATT  
CTTGTTGGTAAATTAATTCCTTCCCTTAATTTTCTTGCCTTGTCTTGGCATATTTGCTGT  
TTTTATGGATAAATAAGATTTATGGTTTAGTACTTGTGCTTTTATGGCACAGTTCAATTTCTA  
CAGTGAAGTGGCATAGGTTGCAGGAAAGAAATTTCTGCATCTGGTACATGGGCAAGTAAGTT  
ATTTAGTTCTAACCACAAATAACAAGTAGTTTCCAAGGAAATTTAGTGGCTCTCTGGTTTCTT  
AACAAAAGAGAAAGCAGCAGCACTTTCTGATCCAACTGTCTTTTTTTGTATCTGTTATTTAA  
GCCAGTGGATATTTCAATTACAAAAATTTAGGATGAATGGCCCTGGGAATAATAACGGGG  
CACTAAGTGTAGAAATATGCTACGTGGAAGTTTGGGCAAGACATATGGGCGGACCAGGTG  
ACGGGCTCCAATGTGGGGATTGCTAAGGCAAATATACGAAAAATGTGGGGAATGGCACAAA  
AATCGGGACTAATAGTACAAGTGGTTCACGAGAAAACCTTGGTACTGGCTAATCTATANNNNN  
N

&gt;138

NNGAGAGCGACGCGACATGTGGAGGGTCGAGAGGTTCAAGATGTTGGATGTGGCG  
CCCCCCCCCGCATTGCTGTTGAAGCATTGCCGGCGGGGGCACGGATTCCCGCTGTGGAAGG  
CTGACCAGGCATACTGAAGCCGGGAGTTGAGACCGCCTGGCCAACATGCGAAACCCATTTG  
GTCTGTAAGATATACAAAAATTAGCCAGGCATGGTGGCGCAAGACAGTAGTCCAGTACTCG  
GGAGGCTGAGACAGGACAATTGCTGAACCTAGGAGGTAGAGGTTGCAGTAAGCCAAGATC  
GTGCTACTGCACTGCAGCCTGGGTGACAGAGTAAGACTCCATCTCAAAAAAAGAAAAA  
ATTGACTTTGGAACCTCAGATTACATATCAGTTTGCATACATGCTAAACAGAGAAATGTCCTC  
AAAATTCAGTTACTAAAAATTAAGTATCTCCATGATTAGAACCACACTGTGGTTGTGTGTG  
TAGTCAAAGGAGGAGAATTTTAAATGCTATATAAGCATAACTGATAACTGCTATTACAAATAA  
TATTCACAAATTTGGAAGTTATTAGAGGAAGAATTTTTTTTCTTGTAAATTTCCAGGTGTTT



Table 4

ATATTAGTTGGGCCATAGTGAAAATTACATGGAGGAAAGAAAATAGGAAAATAAGTCACAGA  
AAAAGAAAATCAAAACAAATAGAACTCTGGGGAACAAGTGAGTTAATTACCGCTCATGTCTC  
CCATCCGGTTCTCTAGCTCCTTGAGGGTACTGTCTAATGCTCCACAAAAGTGCCTTACCCA  
GTGCTTGGTACAGAGAAGGCACTGAATAAATTCACAAAGGCCGATTGGTTCACCCATTCTTT  
TAGAGACAACAGACACGCAATTCTGACGAGGACTCCTGTTACTAAAAGACACAGCCTCTGAT  
ACAAGAGAGATATCCCTTTGACTAAAGCATTACCAGGGTCCCCAGGGCCCCCTCCCACTGG  
GGCGGTAACACTACGGGTCTCCCCACCATTATTTCCATGTCAAAGTATCTACACAAATACAG  
AGGAAATTAAGCAAGTAAATACGGTATGTAATTGTTATCATTGTATTTCTTTAAGGCATATTT  
ATAAATATTTTAAAGTAAACAATATGAGTGAGTGCCCTTCATTAGCTATGATCTTTCATACTGA  
TATATTTTGAAGTATCTGAATAAGCAGGTTACTGTGGAAGCATATAACATAAAACAGCTAATA  
TGATTCCAGTGGGTACAACCAAGTGTCAGTACTTGATACATAACTCTATCCCATCATTCGCAA  
TTACAGGCTGCTGTGTGGAGTATTAACATGCATCTTAGTTTTTATTTGTACACAATGGTCCA  
AATTTTCACTTACATATAACTTTCCAAGTGTGTAAGTGTTTTGAAGCAATTATGTTTTTCATTG  
GATTTTTTGGTGTGTCAATTTCTTCTATAAAATCTCTTCTTTCTTTGTTTTTGTTTTTTGT  
TTTACATGGGATACAATAAATCGGACGCNN

&gt;139

NTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGA  
GGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAAGAG  
AATGCAGAGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACTTGAATTGCAGAGGTCA  
AGAGTTTAAAGAGTTTGGGATGGAAAGAAATCAAGAATTGGGCTCGGCCGCCACCGCGGGG  
AGCTCCAN

&gt;140

&gt;141

NTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGA  
GGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAAGAG  
AATGCAGAGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACTTGAATTGCAGAGGTCA  
AGAGTTTAAAGAGTTTGGGATGGAAAGAAATCAAGAATTGGGCTCGGCCGCCACCGCGGGG  
AGCTCCAN

&gt;142

&gt;143

&gt;144

NNNNATAAGCTAGGGGCGTCCACTCCAGAGCCTGATCCAAAACAGAACGCTAACGG  
CCGTTGCCCTTACATCTCTCATTGGAAGTGACAGGTATTAATAACGGCATATGAAAGCTTA  
AAAGTCATCAAATACAATCACTGGGTACTTTGATTACCCAAACAGGCACTTTCCTAACTC  
CCCATTCTTTACTTCTGCGGTCTCCTTTCTTTTATTCCCCGCGT

&gt;145

&gt;146

NNNACCGCGGTGGCGGCCGAGGTACGCGGGGAGATTTTCACTTAAATCAAAAC  
CAAGCCCTACTGCCTGGTGAGCAAGAGAGATTCCAAAGACTTTACTTTGAAAAGCATCTCCC  
AGCTTCTACTTTTTTTAAGGAAAAGTAGATTTCTTTGTCTTTGTTTTGTTTTAAGCAAGAAC  
AGAATCTAATGACTTTTTTCATGCCATCGCTTTGAAATAGCGTCGTCTTCTTTCTTCTCTCC  
CTCTTCTGGCAAAGTATATACTGGATTTTTATTGCCTTCTTGGGTTTTTTCCCTACGTGTAT  
CGGCCGTTATGCTTAGCCAGTTTATTCTTTATTTTTTACTGGAGTCATTGCCAGTGATGGAA  
ACGGTGTTTGCTTCTCTTTCAGTCAAGATCTGCACAAAGTATAGCATTAGGTGGTATTTATTG  
TTTATATTATGAGTTCTACATTCATCTTCCAGCACTCTGAAGTTATCAGCAAGTTCTCAGTCA  
GTTCAAGGCATTGGATTCTGCTTGATTTCTTTTAAATTCATTGTTTTGACCCCTTTGAGAGTT  
TTAATAGAGAGGAGTCTGGAAGGCAGAGATCTCCACCACCTAACCGTGAGAAATTTGGAAT  
AAGGACTTGCATGCTGCCCAAGTTAACAGTGGATATACTTCTGCAATTTCTCTGTTCTTTTC  
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GGTGGACAGGACTGTGGACGTGGTATTGCTGAAGATAAACCAGAGAAAATGGTGTACAATA  
GAGCCATGCCCTGATGCAGCATCTCTTCTGGCTTCCAAGCAGAGCCCAGAATGTGAGAAT  
TCCTGGATGTTGGACTGGGCAGAGAGTGTAACCTCAAAACAAGGTGTACTTAAAGAGAAATCT  
GGGAGTGATTCTGACCTCTTCACTCACCCAGTGATGACATGGACAGCATCATCTTCCAAA  
GCCAGAGGAAGAGCATTTGGCCTGTGATATCACCGGATCCAGTTTATCCACCGATGACACG  
GCTTCACTGGACCGACATTCTTCTCATGGCAGTGATGTGTCTCTCTCCAGATTTTAAAGCC  
AAACAGGTCAAGAGATCGGCAAAGCCTTGATGGATTCTACAGCCATGGGATGGGAGCTGAG



Table 4

GGTCGAGAAAGTGAGAGTGAGCCTGCTGACCCAGGCGACGTGGAGGAGGAGGAGATGGAC  
AGTATCACTGAAGTGCCTGCAAATGCTCTGTCTTAAGGAGCTCCATGCGCTCTCTTTCTCC  
CTTCCGGAGGCACAGCTGGGGGCCTGGGAAAAATGCAGCCAGCGATGCAGAAATGAACCA  
CCGGAGTTTTAGTCTAGAAGGCTTGACAGGAGGAGCTGGTGTGCGAAACAAGCCATCCTC  
ATCTCTAGAAGTAAGCTCTGCAAATGCCGAAGAGCTCAGACACCCATTAGTGGTGAGGAAC  
GGGTTGACTCTTTGGTGTCACTTTTCAAGAGGATCTGGAGTCAGACCAGAGAGAACATAG  
GATGTTTGATCAGCAGATATGTCACAGATCTAAGCAGCAGGGATTTAATTACTGTACATCAGC  
CATTTCTCTCCATTGACAAAATCCATCTCATTAAATGACAATCAGCCATCCTGGATTGGACAA  
TTCACGGCCCTTCCACAGTACCTTCCACAATACCAGTGCTAATCTGACTGAGAGTATAACAG  
AAGAGAACTATAATTTCTGCCACATAGCCCCTCCAAGAAAGATTCTGAATGGAAGAGTGGA  
ACAAAAGTCAGTCGTACATTAGCTACATCAAGAATAAAATGTCTAGCAGCAAGAAGAGAAA  
ACAAAGAGGGGCGTCCGGGGGAAGGGGAAGGAGAANN

&gt;147

ACCCAAGGTGGGCATTTTTTTAAAAAACCCTGGAATAAATGCTACTTCTTGTTAGT  
GTTGTTTGAAAAATAAACAAAGAAAATGCAACAAAAACCAATGGTCCATTCAAGCTCAA  
GAGTATTTAACCAATGCTCTGTTGCCTCTTAAGGATTGGTAGCTATTTCCCATCTACAAAT  
ACATGACAAATTAAGCCCAATTTTAAAACTATCTGGAATTAGGTCAAATATCTAATT  
TTTTCTGATTTAATTATGGATTACGTAATCCAATAGTTGGCAACATTATAAAACCCTAACTTT  
ACCTCATTTGTTGGCTATACCAGGTCTCATGACTCTGGACATAACCACCATCCTTCTCCCAA  
CACC CGCTACTCAGAGTAAAACCCGGAGCTTCATGATAACCATGAGGCCCGCAGCTTCT  
GCCTCCAAGGCTTCTCTGGCCTCACCTCCCGCTGCTCCTCTCCTCA

&gt;148

GTGGCGGCCGAGGTACCTATGTGCGCGGTGGTAGAAAAGCACCTGGGTGCGGTGC  
AGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTGGACTTATCCTACC  
TTAAGTTGAAGCAGACCAGCAATTGTTGTGACCTACAATCTCCACACCCATCTTTACTCTGAG  
CCAAGGAAGTGTCTGTTCTTGCTGAGTTTCAGGTGCCTTCAGCTTGTGGGAAATCCCGAA  
GATGGCCAAAGACAACCTCAACTGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGA  
TTATTGGTTGTTGCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCAACAC  
AGCCTCTACCCACTGCTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTGGATCG  
GCATATTTGTGGGCATCTGCCTCTTCTGCCTGTCTGTTCTAGGCATTGTAGGCATCATGAAG  
TCCAGCAGGAAAATTCTTCTGGCGTATTTCTATTCTGATGTTTATAGTATATGCCTTTGAAGTG  
GCATCTTGTATCAGCAGCAACACAACGAGACTTTTTACACCCAACCTCTTCTGAAGCA  
GATGCTAGAGAGGTACCTGCCCTGGCGGCCGCCACCGCG

&gt;149

NTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAAG  
GGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAAGAG  
AATGCAGAGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACAACTTGAATTGCAGAGGTCA  
AGAGTTTAAAGAGTTTGGGATGGAAGAAATCAAGAATTGGGCTCGGCCGCCACCGCGGGG  
AGCTCCAN

&gt;150

&gt;151

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTGTCCCCTCTGAGCCATGGAAG  
ATACTGGAGTTAACAAAAATTTTATAAACTAAAGAAAGCAACTTTATAATCTAAAAGAAAGCAA  
CTTCCCTCCTGTCTTTGAATTCTTATTCTGAAAGAATGGATAATGAATCAGGAGATGAGC  
AAAAACGTATCTTTTACAAAGCTCTAGTCTTCCAAAAGCCTCTAAACTCAAACGAAACCTTTT  
AAAGTAGTTTTGTAAAAGCTCAAGGTATGCCATTTCCAGAAAGTTGCAGATGAGCACCATTG  
GCATTACCCAAATTCTGTCACACATTGAGCAATGAAATTCAGGAATTGGACAATGACCTCTTG  
GCATATGAAAGAATTAAGAGAGGGCTAGGGCTTAGGGCAGGGATCTAATCGGGGAGGATGT  
GCTGTCCGAGCCTCCCTCCCTCCTTCTCCTCGCCTTCAGGTAGATGGAAAGAAAGGTTCA  
GTCATGAGAGCAATATCCGATTGTCTTGAATTTTTTCCCTATTGACAAAGCAAGGCATG  
AATGAATATTAGTCTGATTAGATCTTCCACTTGACAATGACTGTCAATACCTGGCTAACAAA  
ATAATATACATCTGTGTATGTGAAACCACAATGGCTGATGTTTCAAATTTCTAATACATTATAA  
TCTGGTTGGATTGAGTGGCTAACAAATGCCACAATCCCATGAGGTAAACAAAACATTCATCTCT  
GGATTTCTCACCTCAGATCTAAGCATCTCCTGTCCATGCAGTACCTGCCNNNNNNNNN

&gt;152

NNNNNNNNNNNCAGGAAATCATCAATCGCAGTAGCAGTGAAGCAAATCAGGTGGTT

Table 4

CGTCCCAAACTTCAAGTAAATGGTCTGCTCCTGGTTCAGCTCCACAGTTAACTACAGCCAT  
TTTGGAATTAAGAAAGCATATTGCTTTTGCTAATTAACTTCACCACAAACTCTCAGGAAAA  
CAAACTCCTACTATCCTCCTTGGCTTGATGACATAGAAATTTAATCCAACCAGAAATTCCT  
AAATACAGTCATGGAGATGGTATAACTGCCGTGGAAAGAATTTACTAAAAGCTGCATCGCA  
AAGTAGAATGAACAAACGCATCATTGAAGAGATATGTAGAAAAGTGACCCCTCCTGTACCAC  
CTAAAAAAGTCACTGCAGCAGAGAAGAAACATTGGACAAAAGAAAGGCGACAGAAGGC  
TAGAGAGAGGCAGCAGAAATTGCTTGCGGAGTTTGCTTCACGACAGAAAGGCTTTATGGAAA  
CTGCAATGGATGTTGATTCTCCTGAGAATGATATTCCTATGGAGATCACCACGGCAGAACCA  
CAGGTTTCCGAGGCAGTATATGACTGTGTTATTTGTGGACAGAGTGGCCCTCCTCTGAAGA  
TCGACCTACTGGATTTAGTCGTCTGTTACAAGCATCTCAAGTTAGGGGCGTGGCGTGACAA  
TGTGACCCAAAAAGTGGCCACCAGGAAAAGACCAATTACCTGGGATACGTGCGCGTCAGAA  
GAGGTTACAATACGGGTATTAGGAAGCAGCCGCGAAATGGCGGAGGGGTTGTACCGGC  
CCTCTTAAAGCAACCCAGCCACAGCGACTCCGGTCCGAAGGCCGAGTCCCCACAG  
ACAGCTCACAAAGCCGCCACCACATCCATAACTCACTGCCCN

&gt;153

GGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGTCCTGTTGCCTCCTGCATT  
TTGGCCTCTGTTCTATAAAGGAAGAGTAAAGATGGAGCTCCTCCTGCCTCCATCACGAAAGC  
ACATATCATCTGTCCCTTTGGATTTTACTTCCAGGACGCGTGTCTGCTCCACGCGTGTGTTGC  
CTTATGGTGCCGGCAGAGCCTCAGCTATCTGCCTGGGAAGTCGGATGTCCTTGGAGAGAA  
TTGGAATGCAGATAATTTTCTTATTTCTTGAGAGCTTACTTTAATCAGCATGACACTACCTAA  
ACACTGAAGATGGCCTTATATTAGTAAGATTTGCACAAAATTAAGTATACCTATGCAAACTATT  
ACTTTGGTTTTAGGAGTTTGGTCAGATGAAGAAGTAATGGTATCACATATATATGAAGAAG  
ACAACCATCATTATTTTGTAAAGTGTTTATAAAAACAACTGATTAACCTGTGAANNNNNNNN  
NN

&gt;154

TCCACCGCGGTGGCGTCCGGCCCCCGCCTTTCTGCGGCTTTCAGCGCGCGTTTC  
AGGTCGTCAATGAGGTCGTGCGCATCTTCGAGACCGATGGACAGGCGGATCGTGCCCTGG  
CTGATGCCTGCGCCCGCCAGCGCTTCGTGCTCATGCGGAAATGCGTGGTGTCTGGCCGGG  
TGGATCACAGGCTGCGGCAATCGCCACGTTTGCCAGGTGGCTGAAGACCTTGAGGGTTT  
CAATGAACCTTCTGCCCTGCTCGCGGTTGCCCTTGAGGTCAAAGCT

&gt;155

NNNNNGTGGATACATAAAAAATGTGTAGTTTTATTAGTTTATTATACTTTTATTAGTTC  
AGTCTCAATAAAAGGTTGAAAGGCATTACGATAAATTGTTCTGTCTGTTTATATCATTTCTTCT  
GGCTGCTCACTGAGTCTTAATCAGTGTACTAGACTGCAAACTAAAGAATAAGATTGGGGGCA  
GGTTATAAAAGAACATGTATAAAGCTTAGCAAACCCCTTTTAAATGTTCTGAAGTCAGTCTTTG  
TAAGTGAATCGCTGGAGACTAGAAAGTATGAAATGGCAGTCTACCTGGGCAACCTACAAAA  
AATTAGCTTGAAGAGACTTCAGTCTCCGCTCCCTGTTGATCTCATGGAGTGGGGAATGGG  
AATTGAACCAGAACTGGAAAATTATTTAGGAAAGTTTGTAACTACTCTTGTGATCTCATGG  
AGTGGGGAATGGGAATTGAACCAGAACTGGAAAATTATTTGGGAAAGTTTATTAACACTCTT  
TCTGCTGAGTAAATTTAAATGTGTTCTGGACATTGTTGAGGTCTAGAATTGGTCTATACAATG  
CCCCTGTACAAGCTACATTGTGTCATTGTCAAAATCAGGAGTTTATTGGATTACATATACTTT  
GTGCTTAATTTAGTATGATTACTTCCGACTGGTGATTATACGTGACTTTGGGCGTTCTTTATA  
GGGATGGAAGGGAAGGATGGGGGGGGGAAAATACGGGGTTCTTTACAGAGGGGGCCCCCG  
GTTGGGGGGGACCTAAGAATCTGGGGAGGGACCATTGGTTTGGCGATTACATAAGGGGGGGG  
GCGTCAAACAANN

&gt;156

CAAAATAGAACCACCTGAAGTAAGACAAGGAAAGGACAGTAAAAAAGGCAAGGAA  
GAAGAGCTGAGAAAGAGCTGCAAGAAAAAGATGTGAGAACTGAGGAGAAAACCAATGT  
GACTTTTCGACCAGAGAATTCATAATTAATAATGATGATTACAGAAATCATTAAAGAAACCAA  
GGAACAACAAGAACATTGTGGTTCCCATCCTTTGGATGACTTCGACGTTCTTTTGAATGCT  
ACAAGATGATAACTTCAGCTGGATTGCATTTATGGCCTCTGTAAAAAAGAAAGCTATAGG  
AAGCCAAGATGCAAGCACCAGAGCGGGCGACCGCCAGCCCGN

&gt;157

&gt;158

NN  
TCTTCTCTGTTTGTGTTTTTTTTTAAATTTTACTCGTTTCTTTATTAATATAGAAAGGAGCCC

Table 4

AGGGCAGCTGGACCAGTAGTACAAAGCACCAGGAGTTAATACCATTCTGGTGAAGGGGATG  
GTTTTACAAAAGTGAAGGAGCAGGCAGGAGCCACCAGGTTCTGAGGCCAGGCCAGCCTAC  
TGCCCAGAACCCCTGAAACGGCTCCCTGGGAAAAAGCTGACAGATGGGTGAGGGGTGGATT  
GAGCTGGAAACCATGGGGACAGATGGCAGGGATAGAGGGTCATGCAGTGGGAACACCCA  
GTGGCTGATAAGGACAGGGAACCTGTGGCTGGAGGCTCCCCATTGGGCCATGGGCAGGGG  
CTTGACAGATGGCCTCAGCTCTGGGGGACAGGTAGAGAAAAGTGCAGAGACTGATGGGCATGG  
AGAACCCAGACATGGCCCTGGGGCTGAAGGGCCTTTCCACCCTCTCTTACCAGGAGCCAC  
CTTTGCTCTATACTACATATGGGGCTTCAGGGCCCAAGGCACAGGGGAGGCTCAGAGGCCT  
CCAGTTGGGAGGAAGATGGGGCAAGGAAGGAAGCACTTGAGTGTCCCTAGCTTAGGCAGC  
CGGGGATGAGACACAGGCAGGACAACAGCACCCCCGCATAGTGGGGCTAGAATGTGGGAC  
AGGGACGGGCTTATCCTCGGCCAGTGAAGTGGACAGCCCATGGCAATGGTGCCTGTCTC  
CAGCCTTAGCAAATCAAGTGTGCAACAAGCACAGGGTGTGGGCAGACCTGGGCTCTAGCCT  
TACAAGCTCTGCCAGAACTTGAATCACACAGAGCTGTATCACCATGGTCCAGCCATGTCTG  
CCTTGGCCTGTTTCCCTCCTCTGTCAATGAGGGCTTTGAATAAGACCTCCTAGGTCATGAAAA  
GGACTCTGCAGGTGAAGGGAACCTCAGGACCTGCTCTTGGCAGTTAAGCAGACCCCTGGATG  
GAACTGGTATGGGATGGGGTGAAGTGGGGGATGGAGGAGGAAGGTGTTCTTGCATGGAAC  
CTATCCCCACAAACACTACAGAGTGAGGAAAGGCCACTGGAAGCCCTTCTTTGCCAGAGG  
AAGAAAGGCCACAGAGAGAGTGAATGTGGCTTGGTGAATCCCTTCACATCCTCCACCATCT  
GGGTAACACTTGGCAAGGAGTGGATGGGTGGCATTGTGCAACCCCTTATGTTCTTCCCTGG  
GGGTGGCACTCAAGGCCTCTTGTGGCTTCTGCCTTCAGCCTTCAGTGTAGGGTCAAGAGTG  
TTCTTTCACTGTCGTCTGTCTGGGAACAGCACAAAGACTCTGCCTGGCTGGCACATGTTA  
GTTGGTGAGGAAAGGACAGAGTGGGTGAGTAAGCAGACAGGGAGGTAAAGAGTGAAGTCTCT  
GGCTTTCTCCTCTTCTCCTCTCAGAGAGCAGCTCAATCAACTGAGTCGCAGATCTCCTCCACC  
ACAGCATTGAAGATGTGTGGCTGGTCAGCATAGACATGGTGGGAGGCACCCTTAATCTCCA  
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CAGGTGTGCGACCCGTAGATCATAGTGATAGGCACATCTTTTCGAATCAAGTGAATTGCTC  
CAGCATAGGGCGCCGGGCCAGCCAAAGGACTCCATCATGGCTTTGAATGCTGTCTACCA  
CTGGGATTCTGTGCGTTGCAGTGGTAAATATACTCTGATATGGTATCATCTTCAAAGAAGTCT  
GCAAACCTTGCGTTTGAAGTCCGGCCGGAATCGCTGCACCAGGAGGCCCGCCAGGGCCCA  
GCTACTCGAAGAACAGCCAATGGATTGGAACGTCTAGGACAGATGCCACGGCTTTGACCC  
AGGCTGGGGGTGCACGGATCTCACTGGGGTTAGTTGGTGGAGGGGAAAGCCCCATGGGT  
CCACCAGGATGAGGTGTTAACTCTATCAGGGTACTTGATTGAGTAAGAAGTGGCCAGGAAT  
CCTCCCAAACCTGTGCCCCAGGAGGATCATGCTGGGGATCCCCATGGTCTCCCGCCATGTCT  
CTATCGATGTCACAACTCATCCTCAGCCCCCTCCGGGTCCCTTGGGAATGCTGGCCTTGA  
GCTTCGCCCCGAAGCCAAGCAGATCGAAGGTGTGAGTGTGCGGCGGGCACTCAGTGAGTC  
CATGTTGAGGATCCAGAGACCCACGCGCCCCCAAACCATGCACCATCACCAGGGGGTG  
CGGTGCTTTTGTCTCGGGGCTCACAGTCAACGTCCAGATCTTATTCTGGTTTGGAGGGATA  
CATATCTGGCCAGGAACCTTATTCTGGAGACACTGGAGGATCCTGGCTTCCACATTCTTCAGC  
TGAGACATGGAAGTGGGGCGCCACGTGGGCAGCCAGCTACTCAGCCAGCCTTGAGACTGC  
TGCTCCAGATCATCGGCCATAGTAAACAAGCCTTGCCAGGTCTGGCGAGCCCGCCAGCC  
CCCTTCTGTCTCTCTCGCAGCCGTAGTCAGCGCGGCCGCGAANN

&gt;159

NNCACGCGTCCGGCTAATGAATCTTGGGGCCGGTGTGCGGGCCGGGGCGGCTTGAT  
CGGCAACTAGGAAACCCAGGCGCAGAGGCCAGGAGCGAGGGCAGCGAGGATCAGAGGC  
CAGGCCTTCCCGGCTGCCGCGCTCCTCGGAGGTGAGGGCAGATGAGGAACATGACTCTC  
CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
TGTTCCAGAGCTTTTCTCTAGAGAAGATTTTGAAGGCGGCTTTTGTGCTGACGGCCACCC  
ACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAGGTTCTTCAAGGCAGAATAATTG  
CAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAATACCTCTGAGAATAGAGATTGAT  
TATTCAACCAGGATACCTAATTCAAGAACTCCAGAAATCAGGAGACGGAGACATTTTGTGAG  
TTTTGCAACATTGGACCAAATACAATGAAGTATTCTTGTGCTGTGCTCTGGTTTTGGCTGTCTG  
GGCAGAGAATTGCTGGGAAGCCTCTGTTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT  
TACAGCAGGAACGAAAAACATCCGACCCAACATTTATTCTTGTGCTTACCGATGATCAAGAT  
GTGGAGCTGGGGTCCCTGCAAGTCATGAACAAAACGAGAAAGATTATGGAACATGGGGGGG  
CCACCTTCATCAATGCCTTTGTGACTACCCCATGTGCTGCCCGTCACGGTCTCCATGCTC  
ACGGGAAGTATGTGCACAATACAATGTCTACACCAACAACGAGAACTGCTCTTCCCCCTC

Table 4

GTGGCAGGCCATGCATGAGCCTCGGACTTTTGTGTATATCTTAACAACACTGGCTACAGAA  
CAGCCTTTTTTGGAAAATACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGA  
GAATGGCTTGGATTAATCAAGAATTCTCGCTTCTATAATTACACTGTTTGTGCAATGGCATC  
AAAGAAAAGCATGGATTTGATTATGCAAAGGACTACTTCACAGACTTAATCACTAACGAGAGC  
ATTAATTACTTCAAATGTCTAAGAGAATGTATCCCATAGGCCGTTATGATGGTGATCAGC  
CACGCTGCGCCCCACGGCCCCGAGGACTCAGCCCCACAGTTTTCTAAACTGTACCCCAATG  
CTTCCCAACACATAACTCCTAGTTATAACTATGCACCAAATATGGATAAACACTGGATTATGC  
AGTACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAGCGCAAAAGG  
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Table 4

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>160

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**>161**

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Table 4

CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
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Table 4

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&gt;163

&gt;164

&gt;165

CACTATTTTTTTTTTTTTGAGATGGAGTCTCGCTCTGTCGCCCAGGCTGGAGTGCA  
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&gt;166

&gt;167

&gt;168

&gt;169

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Table 4

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>170

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>171

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>172

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CTGTGTCTN

>173

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Table 4

GTAAATGAAAATTATTAGTTCACCTCCCTGCTGCCATGAACTTTGCCTTAAGAAGGTGCTGG  
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 AAAAGAAAACTGTATTCCTTATGCAAAACACATGTATCTTTCATTATTTATAAGTGGGCCTC  
 TCTTAGGCTCAGTTACTCAaTCAaACGTAGTATtttttaAAATAAaTATATc

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&gt;175

AGGGAGTCCGCCCACGCGTCCGCCGGGTTTTAGTTCCTCGGGGAGCCCCTGGTGC  
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 ACCCAGGAGGAGTGGGCTTTGCTGAGTCTTCCCAGAAGAATCTCTACAGAGATGTGACGC  
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 TACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTGGAGAGACTCTGTGGACGTAAAGAAG  
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 GGACAGGCACATGAGAGCTCATGCTGGACACAAACGATCTGAGTGTGGTGGGGAATGGAG  
 AGAGACGCCCGTAAACAGAAACAACATGGGAAAGCCTCCATTTCCCCAGTAGTGGTGCA  
 CGGCGCACAGTAACACCAACTCGAAAGAGACCTTATGAATGCAATGCTGTGCGGGAAAGCC  
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 TGTAGGAATGTGAGAGCTCCAGTTTCAGGTTCTTCGAGACGGGAAGTCTTCTGGGAAAA  
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&gt;176

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 CTGCTGCAAATTTACTGCATTTGTGGAGAGAATCATGCTGGCAAGAAGAGAAGGCTGTCCAT  
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 AACTGGCGTATGTAAGTCTGTGACCAGTGCTTACCACCTGCCTTCCACAGTTGAGTTTTCTT  
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 TGGATTGAAGTAGAGGAGTAGTAGCAGGGTTTTCCAAACCATTTGACAATGGTCCATTAGCT

Table 4

TGCCTGAGCTCAGAGGCAGAAATCTGGTCTTGTTGGTCACAGCTGATTCTGCTTTGCTTTT  
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TCTTTCTTTCTCAATATTCTCTGCTGTGTTCTGATTCACTTCAGAAGGCTGAATGGAATCTCCA  
GATGAATTAAGTTGGGCTTCAGGAGGCAGCACTTTTTTCAGGAGGAGT

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TGGCGGCCGCCCGGGCAGGTACCAAACCATTTTCACTAGTTCAGGATAGGAATATT  
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AGAAGTTAAAAATCTACTCTGAGTTATATGTGCATCAATTTTAGACATATTGCTGATTTTATTA  
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ATGAAACTCATTTTCTTTATTCTTCAGTCTCTGTCTGGTAAATTTCCACGTATACAGATTTTG  
CCAGTTTTTCACTAGTTTATCTTTTGGGGCTTTATTATTTGTTTCTGACAACACTGCAGATG  
AGTCTGACTTCTGGCTAACTTTACAAAAAATGTACTGTAAATTCATGCTGAGATCTGGGCA  
GGCAGAGGTATGCANN

&gt;179

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
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GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTTCACA  
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CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAAGTTC  
TCCAAATAAGAACAAGGACACACATTGTGTCAAGTCCAGGAAGATCATTAGTTTCCATATGCT  
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CCAATCTATTTCTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
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CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTCACAGAATTTTC  
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GGGAACCTTCTTCTCATCTGTTAAGTCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCTT  
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GTCGGCATCAAAGAGCTCATCAATGCGTCCGGCTCGCCATTTTCCGCGTCAAGAAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTGAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
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&gt;180

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GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTTCACA  
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TATTCTGCAATTCGTAAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG

Table 4

GCACATCCAGTTCTTTGATGTCTGGCTGCCTTCTGCGGGCCAACTGTCTTGTGGAATTCGTT  
GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTCGTTGTATC  
TGAGCCTGGACATGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACG  
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CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTC  
TCCAAATAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTCACTTTCCATATGCT  
GAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCGGTCATGTGTCTTCGTTTCATATTCTCTGGAGGATACTCGAGCCCGCCTCGAGC  
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GAAGCCTTTGGTGTTCGAGCCACCCTCTTGGTCTTGGTAGCGCAGGGACATCAAGCTCCG  
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GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTGAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
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ACAGCTGAACCCGCCAAAATCGGACNN

&gt;181

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
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GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGTTTTGTTCCACA  
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CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
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GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG

Table 4

GCTCAGATGCCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTTG  
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>182

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AGGAAAATTAATTTATGTTCAAGCTAAATGTCGTTTATGGCACTGGGAACACAAGCATTGTGCG  
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TTTCTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGATATGGAATTAAG  
ATCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCAACGCAGGAAAAAAAAACAAAACT  
GGCTGGCGATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTGTGCCAA  
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CTAGAATTTCCAGTAGACCAGCAGACAGCCGGGAAACCAGATCCTCATCAAAAGACAGAAA  
GAAAAAATTCGAAGCCAGCCTGAGAAGGGCCCTATTTCAATGCTGTTAACCCTGAGACTG  
CATCCTCAACAGTGAGACAGGATGGACCAACATACTCAAGCTCAAGGAAACATCTAACACCG  
GTCGGAAACTCATGGGATCACCGGTACCTAGGATTAGGCCATATAAAGTTTACCGTTACAGA  
ACCGCCTACTCTCATATTACGTCTCACAATGGACACTTATCCCTACCTATCCGGACAAGCCC  
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CCCGTCTCGGCACAGGTGCCACATCACGAGACGCTATGGCTAAACCACAGTATAGACGGGC  
GCCCAAATGAGAGGACACCGGCCCGCCTTGGTTGTCACGGCACAAGAGCATCGCCATCAGA  
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CNNN

>183

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AGATATAAGGGGAAAGATAATATTGTCTGTCTCTATATTGCTTAGTAAGTATTTCCATAGTCAA  
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Table 4

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 TAGTTGTAGCTTGATTATTTTCATTTTTTTTTTTTTTTTTGTGACTTCTTAGCTTTGCATTTAACTCTGA  
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 TACTTTTAAATAGGCAATTACTTTTTCCAACGAATATCCAGTATATTGTTCTTTCCATTGGTTT  
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 TCCCTTTCCGCTCCCCGCGTACCTCGGCCGCCac

&gt;184

NACAGCTGGCGAGTGTACCCGTTTCTGCGAGAGAAGCTAAAGAATGCCCTTGCGTG  
 AGGAAATTAATTTATGTTCAAGCTAAATGTGCTTTATGGCACTGGGAACACAAGCATTGTGCG  
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 GGCTGGCGATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAAACTCTGTGCCCAA  
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 CNNN

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ctgtcgcgcgccttatagttccggctgtggcgcgcggacggaaagtattatgccgacggaaagtattatgccgacggactGT  
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 CTATTGATGgccccctGTGCTTGAAGAATGTACAGTClatGtTTGGAAAACCTGATAGATTTGGCATA  
 TAcgcctttccatgctgttctcaagtgtggccacctaactgtcga

&gt;186

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGT  
 GTTTTCGCTGATCCACACAAACGTTGGGGCACTGTCTATTATGTTCAAGCTGAAGGCTC  
 GTTCTCGGTTGTCAATTTACAGTGTCTTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
 GTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTCCACA  
 ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAGGAACACATCATGCCGTGAAGCCAATTTA  
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 GCTCTCCATTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTACCCATAATTAAGA



Table 4

CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAAC TTC  
TCCAAATAAGAACAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTTCCATATGCT  
GAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGCTGATCAG  
TTTTCGGCCCGTTCATGTGTCTTCGTTTCATATTCTCTGGAGGATACTCGAGCCCGCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTCACAGAACTTTC  
ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTCCGAGAAATCGT  
CTGTAGGGGTTGGGAGGGTGCACCTTGTATCCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGTTGTTTCGAGCCACCCTCTTGGTTCTTGGTAGCGCAGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATTCTCTGAACTCTCCTCTCCTTAAGAGGTGGCCGGGGA  
GACTTCTCAGGGGATTTTTGCAGACGGGCTGGGCTTGCTGTCTGTTTAATTGTTGTTACTTTT  
AGCTGCTCTTGTAAAGGCTTCATTTGCTCTTGCAAATTCCTTAATTCCTCTTGAACCTCTTCAT  
TCGTTTTCTCTCGCCTGGGGGAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACTTCTTCTCATCTGTAAAGTCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCTT  
TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCGCC  
GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTCAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
GCTCAGATGCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTT  
ACAGCTGAACCCGCCAAATCGGACNN

&gt;187

NNNNNNCTAAACAGCCTGACACTGAGGGGAGGCAGTGAGACTGTAAGCAGTCTGG  
GTTGGGCAGAAAGGCAGAAAACCAGCAGAGTCACAGAGGAGATGGCCAACTGCCAAATAGC  
CATCTTGTACCAGAGATTCCAGAGAGTGGTCTTTGGAATTTCCCAACTCCTTTGCTTCAGTGC  
CCTGATCTCTGAACTAACAAACCAGAAAGAAGTGGCAGCATGGACTTATCATTACAGCACAA  
AAGCATACTCATGGAATATTTCCCGTAAATACTGCCAGAATCGCTACACAGACTTAGTGGCC  
ATCCAGAATAAAAATGAAATTGATTACCTCAATAAGGTCTTACCCTACTACAGCTCCTACTAC  
TGGATTGGGATCCGAAAGAACAATAAGACATGGACATGGGTGGGAACCAAAAAGGCTCTCA  
CCAACGAGGCTGAGAAGTGGGCTGATAATGAACCTAACAAACAAAAGGAACAACGAGGACTG  
CGTGGAGATATACATCAAGAGTCCGTCAGCCCCTGGCAAGTGGAATGATGAGCACTGCTTG  
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GAGAGTGCTCGAGACCATCGGGAAGTACACCTGCTCCTGTTACCCTGGATTCTATGGGCC  
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GCAGCCACCCTTGGGAACTTCTCTTTAACTCGCAGTGCAGCTTCCACTGCACTGACGG  
GTACCAAGTAAAGTGGCCAGCAAGCTGGAATGCTTGGCTTCTGGAATCTGGACAAATAAG  
CCTCCACAGTGTGTTAGCTGCCAGTGCCCAACCCCTGAAGATTCTGAACGAGGAAACATGAT  
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AGCCCCAGTGTGTAAGCTGTGCAGTGTGACACCTGGAAGCCCCAGTGAAGGAACCATG  
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CCCTTGCCAACTGTGAGGCTATTTCTGTGTGAGCCGCTGGAGAGTCTGTCCACGGAAGCA  
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CACCAGCCCCAGTCTGTCAAGCTTTGCAGTGCCAGGATCTCCAGTTCCAAATGAGGCCCG  
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CAGCCTGGATTGTTCTGACACTCGTGGAGAATTCAATGTTGGCTCCACCTGCCATTCTCTT  
GTAACAACGGCTTTAAGCTGGAGGGGGCCCAATAATGTGGAATGCACAACCTTCTGGAAGATG  
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Table 4

TTTAAATACCACTTGTTACTTTGGCTGCAACGCTGGATTACACTCATAGGAGACAGCACTCT  
CAGCTGCAGACCTTCAGGACAATGGACAGCAGTAACTCCAGCATGCAGAGCTGTGAAATGC  
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CCCTTGAATCCTCACAGCCACCTAGGAACATATGGAGTTTTTACAAACGCTGCATTTGACCC  
GAGTCTTAAGGTTTCCATAAACACCCCATGAATCAAAGACATGGAATTACCTTAGATTAGCTC  
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CAATCTCAAATTCTCAACCTACCACCCCTTCTGTCCACCTCTTCTCTTCTGTAACACAAG  
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AAATAAAAATACCTCTTTATTTTTGATTGAAGGAAGGTTTTCTCCACTTTGTTGGAAAGCAGG  
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GTCAGTGTCCCTCAAATGACCCAAAGACCAATATTCAAATGCGTAATTAAGAATTATCCCC  
AAAAAAAAAAAAAAAAAAGATCTTTAATTAAGCGGCCGCAAGCTTN

&gt;188

NNAGCTCCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
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ACTCGAAGTGCTCTGTGATTGACAGAGAGGGACAGTCGTAGTCAGAGGTGGCTCCTCAGAG  
AATTCAGAACTCACTCGCTGTCTCCAGGGGCTCATCCCTTGATTTGAGGGAGGGATGAAAT  
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&gt;189

NNNNNNNNAAGGAAAGCAGCTGCAAACTTCCCATCTGCAGTGTTTGTGTTGTCTCGG  
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GTCCTCAGACCAACCAGCCCAAGGAACATCTACCAATTTTTAATCAAGAATATTCTGTGAAA  
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AAGATCAAGAAAAGACTCTTGCTTTGAGAAGACACAAAGAAATCACATCATCTTATTGGGATT  
ACNNNN

&gt;190

accacgcGTCCGGACgggaGCTgtatgAAAGcggcggAGTTATAGACCGCTAACACCTGTCA  
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CTGCTCAGATTCAGGCCTTGCTCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGG  
ACTCGTTGACATTGGGGAACTTTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGG  
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Table 4

CGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTTGCCAGGACCTGAACGCGCCTTCT  
GATTGGGACAGCCGTTGGGAAGGACAGTTATGAAACGAGTCAGCTGGATGACCAGAGTGCTG  
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GCATTCCGATGTGATTGATAGTCAGGAACCTTCCAAAGTCAGCCGTGAATCCACAGCCATG  
AATTTACAGCCATGAAGATATGCTGGTTGTAGACCCCAAAAGTAAGGAAGAAGATAAACAC  
CTGAAATTTCTGATTTCTCATGAATTAGATAGTGCATCTTCTGAGGTCAATTAAGGAGAGAA  
AAATACAATTTCTCACTTTGCATTTAGTCAAAAAGAAAAAATGCTTTATAGCAAAATGAAAGAG  
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ATTCTCTCATGAATAGAAATTTATGTAGAAGCAAAACAAATACTTTTACCCCTTAAAAAGAGA  
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TTTTGTGGTGTGAATAAATCTTTATCTTGAATGTAAAAAAGT

&gt;191

GTACTCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTCCCAGGG  
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CTGGGCTCACTACCCGGCTTCGTATAAGGTCCTTTTGAGGTTTATTATTTCTTGTCCATAT  
ACTTGATGCTCTTCATTGGCTTGTCTGGGACCTGCCTTAGGTTCTCCGAGGCATAAAAGGGC  
CGGACAGCCCCGAGTTGGGGGAACCTCTGAAGCTTCTTGGTGGCTGGAACCTTGGTCATCT  
TAAAAATCCTTCAGGTTTTAGCCTGTGCCCCCAAGACAAGGATTTTCCAGAATCTTCTACTT  
CAGTAGTTACTGGTATGAGAAGTTTCGGCAACTTCTCCCTGATCCCCAAGTCCCAATTACAC  
GAACTCCAAAGCGGTTTCTTCTCCCGCGN

&gt;192

TGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTGGCTTGAA  
ATACAGCTGAAATAACTGAATTTTCTACTTGAAACGTGTGTGCCTCTCCACTGAGGGGCCAA  
GGCCCTGGAAATGTAAAGGGCCAATCTTTGTTACAGAGGGGTTCAATTGCAGTGAAGGGCGG  
GTTCTGCAAAGACAAACAGGTCTCACAGATAGTTGCCCCGCGT

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NNGAGGATCCATTATCTTCTGTTTGCTTTGCTCTTCCTGTTTTTGGTGCCTGTTCCAG  
GTCATGGAGGAATCATAAACACATTACAGAAATATTATTGCAGAGTCAGAGGCGGCCGGTGT  
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AAATGCTGCCGAAGAAAGAAATAAAAACCTGAAACATGACGAGAGTGTTGTAAAGTGTTGA  
AATGCCCTTCTTAAAGTTTATAAAAGTAAATCAAATTACATTTTTTTTCCAAAAAAGT  
AAGTAAAGT

&gt;196

ACGCGGGGGGATCCGAGTGAGGCGACGGGGTAGGGGTTGGCGCTCAGGCGGCGA  
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TAAATTAGACTAAGTGTTCATAAATAAATCTAAATCTTCAGCATGATGTGTTGTGTATAATTGG  
AGTAGATATTAATTAAGTCACCTGTATAATGTTTGTAAATTTGCAAAACATATCTTGAGTTGT  
TTAAACAGTCAAAATGTTGATATTTATACCAGCTTATGAGCTCAAAGTACCTCGGCCGCC

&gt;197

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NACTTGGTGTTTGTCCCCCGGCGAACACATTTTGGGGTGCGCACACTGGCCCTG  
GTGGCGCGCTTCTTTTAGGGGGCCTGTGGCCACAGACAATGTTCTAACC GGGTAGTGGT  
GCTCTCTTACCCCGGTGGTCAGATAACCAGGGGGCCAGGGTCCCTTCTTTTGGCCCTGTA  
GCACACCCGGTACCCTAAAGCTTGACCCGTTAAAGCTGTACTTGTAAGTGGGTACCTCGTG  
AAGTGTCAAGGAGGCCAGAGCAGGAAAGGAAAGGAATAACCCCAACACCAACACAA  
GAGAGGCACAAATTAGAGGGCTGGGCACAGGCTGTAGCCCTGGGTGAGGGGTAGCAGC  
TTGACAGTTGCTCTGTGGTCTCTGGGATATAATTCTGCCCAAGGCTAGAACCACAGAGAAGA  
GTTTGCACCTTAAGTCCAGGAAGGGGACTACCTGGAAGGCCTGAGAACAAGGAGAAAGT  
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CTTGTTAAATGGCATGGTAGGCAGATTAGAGTCTGGCTATAATCCCTAGGGCCCCAATCCT

Table 4

AGTAGTTACGTGCTAACCAACACATTACCCTGAGGCTTCTGGGAGAACAAGAGCCCTGAGG  
AAGAAGCAGTAAGACCAGGCATGAGAAAACCCAGAAAGCCAGCTCAGTTCCCAAGAAGGCT  
GGCACATGGGGCCTGAGAATTCTTAAATGGCCATTGTCACTGGTACTTGCTCAGCCTTTCCA  
GGCCCCTCTGATGAGCTCTCTAATCAGCAGGACCAAGGTGTGAAGTGGGAATGAACATGGA  
TCCATCCCATTGGATGGAGAAGAAAGGTGGACAGCCTGTTCTGTCTCTCATGTGAGCCTAGG  
GCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACCTGCCAAAAGTTAATTAGTAACTCACC  
GTCGAGAGTGAATTAACAGGACAAACGTAATCCAACATGCCAGTGTGGGTAGGACACAGTT  
CCCTAATCAGCCCTTGGCCCCCAGATGCAGGCTCTCCCCTCCCCTCTGAGACCTCTCTGGG  
AATAGCAGACAAGAGAATGTCAGGGCAGAAACCTGCTGGACTAGGCTCTCAGCAGCCCAGC  
TCCTCCCTGGGGGAATCCCCCAGAATTCCTCACTGTGTGACACAGTTTTCTCCCATGTCCTG  
GGCATATCTGTCTGACATGGTGGTCCTTAAGTCCTCAATGTCACGACGCAGCTGTTGAACCT  
CTTCTAGTTTCTCTTGATCACATCTGGCTTCTGCAATCTAGCTGAGTCTCTGGGTGCTGTG  
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TGCTACAGACAGCCTGCAGATCTTGAAGGCAACTGGCCAACCTGCTGGTGCAGCTCAAGTGC  
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TTGCTGGGTCTCCTCCAGCAAACTCTCCAGCTCAGTCACTTTCTCCTGCAGCTCTGTGCTC  
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CTTCTAGTTTCTCTTGATCACATCTGGCTTCTGCAATCTAGCTGAGTCTCTGGGTGCTGTG  
AGTGAATGCCCAGGAGCAGGGAGAGATTGGGGTTCATGGCCCTGGGCCCTCTGGGTACAA  
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CAGCTGGGCCGTGTCTGGTGAAGGTGGAGACCCTGGTTGGGCCTGGCGCAGGTGTTCTG  
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CTTCTTCTTGAGCCACTTCTGCTCTAGGCTCTGTACTTGTGAGCGCAACTGATCCATCTTCT  
GCTGCTGCTTCTCCACAATCTTTTGGAGCGAATCGTATCGCTTCTGCCAGGACTCCATTTCC  
ACTTCTGGACCTTCTCCACTGGTCTCCTCCACAGACTGTTTATCTTGCAGGCTATGTCCAGC  
GGAGGAGAATTCTGCTTCTCTCTGCCTCAGGCTTTCCAGTTGAATCTCCTTCTCTCTGCAGA

Table 4

TTGCCTGGGTCTCCTCCAGCAAACCTCTCCAGCTCAGTCACTTTCTCCTGCAGCTCTGTGCTC  
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AAGGGTGCTCCTCGCAGATGGAACAAN

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NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGT  
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GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTCCACA  
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CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
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GCTCAGATGCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCTGTT  
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ggAgTCGACCCACGCGTCCGATCATGTGACACGGAAGTAGCTCCGAACAGGAAGAG  
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CAAAGGTCAATATCCAACACAGCCAACCTACCCTGTGCAGCCTCCTGGGAATCCAGTATACC  
CTCAGACCTTGCATCTTCTCAGGCTCCACCCTATACCGATGCTCCACCTGCCTACTCAGAG  
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CCTCCACCTCCTGGATGCCCTCCCAATGCTGCTCAGCTTGCAGTCATGCAGGGAGCCAACG  
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CTGGTGAGGAACCAAGGCCACCTTTGTGCCGGGAAAGACATCACATACCTTCAGCACTTCT  
CACAATGTAAGTCTTTAGTCATATTAACCTGAAGTTGCAGTTTAGACACATGTTGTTGGGGT  
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TTTTAGTAATAAAACATCAAATTAGGTTTGGAGGGAACCTTTGATCTTCTAAGAATTAAGTTG  
CCAAATTATTCTGATTGGTCTTTAATCTCCTTTAAGTCTTTGATATATTAATTGTTATAAATG  
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TAGTCTTCCATTTCTCCCGCAGTCTCCATTGAATCAATGGTGCAGGACAGAAAGCCAGTC

Table 4

AGACTAATTTCTTCTTTCTCCTCGCACTTCTCCCCACTCGTCATCTTTAACTAGTGTTTCACAA  
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ACCTAACCCTAAATTTGCTTTGGTGCCAGAAAACTGAGCTATGTTTGAACAAAGATGTCGTG  
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ACTTAACTTGTGGAATTTTTATACTAAAAATGTAGAATAAAGACTATTTTGAAGATTTG  
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NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
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GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTTCACAC  
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Table 4

TGAGCCTGGACATGGCGGCCGAGGTA CTACAGTCACGCAAATTCACAGTCTGCGTGCACG  
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CAGAAAAGCATGTTGACTCCTGAATTCTCTGAACTCTCCTCTCCTTAAGAGGTGGCCGGGGA  
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TCGTTTTCTCTCGCCTGGGGGCAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
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GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
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GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
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NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
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TCCAAATAAGAAACAAGGACACACATTGTGTCAGGTACGAAGATCATTAGTTTCCATATGCT  
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CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
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ACAGCTGAACCCGCCAAAATCGGACNN





Table 4

GAGAAAGAACTTACAAAAGCACAAACCACCAAGGCAGCCTGAACGGGGAGCCCTGTGCAG  
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AGAGAACCAGACATAATGGAAAGACCTCTTCAATAATGTTGTCTGCTCAGTGAACGTT  
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CATTAAATGGCTTTCCACATACAAATACAATAGAAAAGAAAAGTCTGGAACCTGACTATCAT  
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&gt;210

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CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGTATCTGAGACAGTCTGATCAG  
TTTTCGGCCGGTCATGTGTCTTCTGTTTCTATCTCTGGAGGATACTCGAGCCCGCCTCGAGC  
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GAAGCCTTTGGTGTTTCGAGCCACCCTCTTGGTCTTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATCTCTGAAGTCTCCTCTCCTTAAGAGGTGGCCGGGGA  
GACTTCTCAGGGGATTTTGCAGACGGGCTGGGCTTGTGTCTGTTAATTGTTGTTACTTTT  
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Table 4

TCGTTTTCTCTCGCCTGGGGGCAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACCTTCTTCTTCATCTGTTAAGTCCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCCTT  
TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCGCC  
GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTGAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAAACTTCGAAGGAG  
GCTCAGATGCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTTT  
ACAGCTGAACCCGCCAAAATCGGACNN

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NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
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GCTCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTCTGTGATC  
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TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCGCC  
GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
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NNNCTCGCTCTGTCACTCAGGCTGGAGTACAGTGGCGTGATCATAGCTCACTGCGG  
CCTCGGTCTCCTAGGGTCAGGTGATCCTCCCATCTTAGCCTCCTGAGTAGCTGGGCATGTG  
CCACCACACCTGGCTACTTTTTAAATTTTTTTTTTCTGTAGAGACGAGGTCTTTCTATGCTGT  
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CACACAGCCCCAAAAAATTTATGTCTGGTTCCAGGAGTTACCTTTTATGAGAAGTCCATC  
TGTGAAGACCTGGATGTTTCAGAGAATCTTGGGAAAAACCCTGAAAGAAAATAAAGAGGCC  
GGGCCCGGTGGCTCATGCTTGTGGTCCCGCACTTTGGGAGGCTGAGGTGGGCAGATAAG  
CTGAGGTCAGGAGTTCAGACACGCTGGCCAACGTGGCGAAANN

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CGCGGTGGCGGCCGAGGTACATGCCTACAGATAGTCCCAGCTACTCGGGAGGCTG



Table 4

AGGCAGGAGAATCGCTTGAACCCAAGAGGCGTAAGTTGCAGTGAGCCGAGATCATGGCACT  
GCACTCCAGCCTGGGTGACAGAGAGAGACTCCATAAGAAAAAAGAAAAAAGGGGGGCA  
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GCGGCCGAGGTACTATCAAACAACATGATACAATTTAAATGTGTCATAGCAACTACT  
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AAGCCCAGACACATGGAGAAGTTCTGAGTGTTTTGGCCGATAGTCCCAGATGAGGTTCCAG  
CAACAGCTGGGATCACCCATGAGATGTGAGTGAGGAAGGCTTTGAGATGGTTTCAGCCCTA  
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CTTCAGAATTCAGAAATAAAATAATTCATCTTATTTCANNNNNNNNNNNNNNNNNNNNNNNN  
NNNNN

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TTCCGAGGAGGCATCTCCAGGAAGATGATGGCAGAGGTAGTCAGACGGAAGCTAGGGACC  
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TTCAGTAAGACATCAGAGTACCATGATATCATGTATCCTGCTTGGACATTTTGGGAAGGGG

Table 4

ACCTGCTGTTTGGCCAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTTCAGAGAAGATC  
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&gt;221

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Table 4

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>223

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Table 4

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Table 4

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&gt;225

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Table 4

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&gt;227

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TTGACAAGGTGTTTGGAGTAGATGACAATCAGGATTATAATAGGCCTGTTATCAACGAAAAAC  
ATAAAGTACTAATAAAAGATTGGGCTCTCAGTTCTGCTGCAGCAGTAATGGAAGAAAGAAAA  
CCACTGACTACATCTGGATTTCACTACTCAGAGGAAGGCACATCTTCATCTGGAAGCAAACG  
TTGGGTTTACAGTGGGCTAGTTTGGCTGCCAATCATACAAGGCATGATCAAGAAGAAAGGA  
TAATGGAATTTTCTGCACCTCTTCTTTAGAGAATGAGACAGAGATCAGTGAGTCTGGCATG  
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Table 4

CTCTTCCCCAGCTTCCAAATGAAGAAAAGTCTCTTGAGAGCCACAGAGCAAAGGTTGTAACA  
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TCCTGGAAAAGAGAAAAGTGAACTGATAAGGAAAAGTCTTTGGTAAAGCAAACATTAGCAA  
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GAAGAAAAGCTGAGGAAATCTGAAAAGTCAGACTCCAAAGGGAGGAGACAAGAAGGAATC  
CTCCAAGTCATTAGTGCAGACAAGGGAGCTTCACTATAGAAAAACCCAGCCCAACATACCCA  
TAGAAGTATTATCCCCATATAAATAAACAGACTTCCTCTACTCCTTCTTCTTAGCATTAAATC  
TGCAAGTAGAATACGAGAAAGAGTGAAGTCTTTGGATCCTGATTCTAGTATGGACACAACCC  
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CAGCTGATGAGCATGTACATTCCAACTGGAAGGAAGTAAAGTAACGAAATCTAAGACTTCT  
CCGGTGGTATCTGGTTTCATCTAGTAAATCAACCACCCTTCCAAGGCCACGACCTACCAGGAC  
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CGTAACATCTCTCGGATTGATTTATTGGCTCAGCCTCGTAGAACACGACTTGGCTCACTGTC  
AGCTCGTAGTGACTCTGAAGCAACAATTTCTAGAAGTAGTGCCTCTTCGAGGACCGCAGAAG  
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TCAGTAAATTCAAGATGGAGGCGCTTTCTACTGATTATGCTTCCACCTCAGAAGATGAATTT  
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CAAGCAGCAGAGCCTCCCGATCACTTAACAATTACAAGGCGGAGAACCTGGAGCAGGGATG  
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Table 4

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CCCTGGCGTTCCCAACTTAATCGCCTTGCAANN

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NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTAGTAGAGACGAGGTTTCTCCATGTT  
GGTCAGGCTGGTCTTGAACCTCCCGACCTCAGGTATCTGCCCGCCCGGGCCTCCCAAAGTGC  
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AGGTACGGCCTGTCCGAATGATGCGTTGCAGTTGATTTGTCTTACCCAAATAATTTTCATCTA  
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CAGAGGAAGAGAAAGCCATCATCCTGTAGTACCTCGGCCTTGAGCCTGCGCATCTCATCAT  
CTGTCAGGGTCCCATAGGGCAGTTCCATGTGAATATCNCAGGGTGGGTCAGCCATCACAAC  
TGCAAACTTGCCCAAGATACTGACGTCCAGGTAGCGGATATCACAACAGATCCACTGCATAA  
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NAGTCGACCCACGCGTCCGTGGCATTATTTCTCTCTCTACAAGGAGCCTTAGGAGG  
TACGGGGAGCTCGCAAATACTCCTTTTGGTTTATTCTTACCACCTTGCTTCTGTGTTCTTGG  
GAATGCTGCTGTGCTTATGCATCTGGTCTCTTTTGGAGCTACAGTGGACAGGCATTTGTGA  
CAGCACTATGGGACTGAGTAACATTCTCTTTGTGATGGCCTTCCTGCTCTCTGGTGCTGCTC  
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Table 4

TTTTGCTAAGAACCAAGAATTCAACTATCGAGTATGATGGTATTATGCAGAAATCTCAAGATA  
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ACAGTTATTATATGTGTGATGGTTTTCTGTCTAATTCTATGGAATGGAAGAAGAAGAGCGG  
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CACAGCAAACCAGAGAGAATAATACAAATGAATGAAAACCTAGAACCAAAACAAACAG  
GAACCATCTCTACATTTTTTTTACTCAATCGACCCTGAATGCTACAGCATTATCCAGGGCCGC  
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ACCGTACATTCTGTGCCATCAAGAAATTTACTCAGCTGGGCACAGTGGCGCATCTCAGCTC  
ACTGCAACCTCCGCCTCAGAGGTTCAAGTGATTCTCCTGCCTCAGCCTCTGGAATAGCTGG  
GACTACAGGCACCTGCCACCACACCCAGCTAACTTTTTGTATTTTAGAGAAGATGGGGTTT  
CATCATGTTGGCCAGCTGGTCTCAAACCTCCTGATCTCAGTGATCCATCTGCCTCAGCCTCC  
CCAAGTTATAAGATTTTTTCTCTGGTTTTTAGTAAATGTTTTTTTGGAGATTGCTTAGCACC  
AGAATGATTTGCAAATTTGAAAATAGGAACTCCACTAGGAATGCCGGATAGAAGAGTGCTTC  
ACATTTGTAGAGGGGAGACAAGAACTAAATATCACGACGTCTTTCTGAGCCTTTTGGTTTGCTA  
ACGTGCCCCAAATTTCTATTCCAAACGGTATAAGATAATTATGTGTAATGAATACCAGCTCT  
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GAGTCTTGCTCTGTTGTCCAGCCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAACCTC  
TGCTCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTAAGTAGCTGGTATTACAGGAGT  
GTGCCATTAGCCTGGCT

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gGCGGCCGCCCGGGCAGGTACGCGGGGGCCAGTTCTCTTCGGGGACTAACTGCAA  
CGGAGAGACTCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAA  
CCCTATAAACGCCAACAATCATTATGACAAGATCTTGGCTCATAGTCGATCAGGGGTCGGG  
ACCAAGGCCCAAATGTCTGTGCCCTTCAACAGATTTTGGGCACCAAAAAGAAATACTTCAGC  
ACTTGTAAGAACTGGTATAAAAAGTCCATCTGTGGACAGAAAACGACTGTGTTATATGAATGT  
TGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCAGCAGTTTTGCCATTGACCA  
TGTTTATGGCACTCTGGGCATCGTGGGAGCCACCACAACGCAGCGCTATTCTGACGCCTCA  
AACTGAGGGAGGAGATCGAGGGAAAGGGATCCTTCACTTACTTTGCACCGAGTAATGAGG  
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CTGAATGCTTTACATAGTCACATGATTAATAAGAGAATGTTGACCAAGGACTTAAAAATGGC  
ATGATTATTCTTCAATGTATAACAATTTGGGGCTTTTCTTAAACCATTATCCTAATGGGGTGT  
TCACTGTTAATTGTGCTCGAATCATCCATGGGAACCAGATTGCAACAAATGGTGTGTCCAT  
GTCATTGACCGTGTGCTTACACAAATTTGGTACCTCAATTCAAGACTTCATTGAAGCAGAAGAT  
GACCTTTCATCTTTTAGAGCAGCTGCCATCACATCGGACATATTGGAGGCCCTTGAAGAGA

Table 4

CGGTCACCTTCACACTCTTTGCTCCCACCAATGAGGCTTTTGAGAACTTCCACGAGGTGTCC  
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CAGCAGAGAAATCCCTCCATGAAAAGTTAAACAAGATAAGCGCTTTAGCACCTTCCTCAGC  
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GCAGCTTTGCCCTCAAGGGAAATTTAGCAATGTCTGGAGACATTTTTTATTTTCATAATTTG  
GAGGGACATGGGGGAGTTGTGCTACAGAACTTAGTAGGTAGAGGACAGGGTTAGTGCTGAA  
CGTCCACAGT

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TATAGGAGTGCACCCACGCGTCCGCTTAAAGAGGAAAAGAGGGAAGAAGATGAG  
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CTGCCCGCTTTTAGCGTCTTCACCTTCTCACAGAGTTCCAGTGCGTGGTATTCTTTCGAGGT

Table 4

ATTCTTTCCAGGCCGAGATTGAGCACCTCATGTACCTACGCCACAGACAGCCAGAGGGAAA  
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CCCCCGGGCCCNNNNNNNNNNNNNNNNNNN

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ACCAACAAGATTGAAGTGGTCTGAAGGGAAGAAAGAGGGGAAAAAAGGATTTCTCTGAAGG  
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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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GCGN  
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Table 4

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&gt;250

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Table 4

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CTCTCTTTGTGAGAAGGGACACAGGTGGTAATTTGGAGATGGGGCCAGAGCTTCTGGCTTTT  
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&gt;251

&gt;252

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&gt;253

&gt;254

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Table 4

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Table 4

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&gt;256

&gt;257

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&gt;258

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Table 4

GGCTGCGGCTAACACCACCAGGACCTCCTGGTCCTGAGGTGACTCCAGTAGGCTCCATGAG  
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&gt;259

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&gt;264

&gt;265

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&gt;267

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&gt;268

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&gt;269

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TGCACAGAGCAAGATGCTGAGTGGAGTCGGGGGCTTTGTGCTGGGCCTGCTCTTCCTTGGG  
GCCGGGCTGTTCTACTTCTCAGGAATCAGAAAGGACACTCTGGACTTCAGCCAAGAGGATT  
CCTGAGCTGAAGTGAGATGACACATTCAAAGAAGAACTTTCTGCCCCAGCTTTGCAGGATG  
AAAAGCTTTCCCTCCTGGCTGTTATTCTTCCACAAGAGAGGGCTTTCTCAGGACCTGGTTGC  
TACTGGTTCAGCAACTGCAGAAAATGTCCTCCCTTGTGGCTTCTCAGCTCCTGCCCTTGGC  
CTGAAGTCCCAGCATTGGTGGCAGCGCCTCATCTTCAACTTTTGTGCTCCCCTTTGCCTAAA  
CCCTATGGCCTCCTGTGCATCTGTACCTGCCGggcgccGCTCGAGGTTGGTTCAAGCCTTC  
GTTGACAGAGTTGCCACGGTAACAACCTCTTCCGAACCTTATGCCTCTGCTGGTCTTTCA  
GTGCTCCACTAaCCCGCGTACCTCGGCCGCCACCgctggaGCTCCAa

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Table 4

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CGCGGTGGCGGCCGAGGTACGTTCTATTCTGCTCCTATTAGGTCCTTCTCACCGC  
ACCGGCCCTCGGTTCGATTACGCCTCTCCAGTTCTGCTGGGGACGTTCTAGCCTCGCCCCAC  
CCGCGTCGATCTTTATGTTATACCGTCACTCCCAGTGCCCTAATGGAAGTATCCCTCCACTC  
ACTCCCCCTGGTTCTACCCGGCTCCAGAGCCTCTCCCGGCCCACTAATTTATCCCAAATTC  
TAGGCCCGGCCCATCAGCCCTCCCGCGGTACCTGCCCC

&gt;277

NNGGAGCTCCCCGCGGTGGCGGCTCGAGTACGCGGGGAGGCAGCGGAAAGCTCA  
GCCCATGTGAGGTGCCTCCTGCCAATCACAGACTACCCTTCCCTGGTCCTGGAGGTTCAAA  
GAATTGCAGGAGGGTAGAAAAGCACCTGGGTGGGTGCAGACTGCGGAGCGGGCCCTACC  
GTGTGCGCAGAAAGAGGAGGCGCTTGCCCTTCAGCTTGTTGGGAAATCCCGAAGATGGCCAAA  
GACAACTCAACTGTTTCGTTGCTTCCAGGGCCTGCTGATTTTTGGAATGTGATTATTGGTTGT  
TGCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTGTATCTGACCAACACAGCCTCTACCC  
ACTGCTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTGGATCGGCATATTTGTG  
GGCATCTGCCTCTTCTGCCTGTCTGTTCTAGGCATCATGAAGTCCAGCAGGAA  
AATTTCTTGCGGTATTTCTGATGTTTATAGTATATGCCTTTGAAGTGGCATCTTGTATC  
ACAGCAGCAACACAACGAGACTTTTTACACCCAACCTCTTCTGAAGCAGATGCTAGAGAG  
GTACCTCGCCCGGCGGCGCTCGACCGCCCGGGCAGGTACGCGGGGATAGTTCACTCACT  
TTCAAAGCCAGCTGAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTTCAGTGTGCTTCTGA  
CTTTTACGGACTTGGCTTGTTAGAAGGCTGAAAGATGATGGCAGGAATGAAAATCCAGCTTG  
TATGCATGCTACTCCTGGCTTTCAGCTCCTGGAGTCTGTGCTCAGATTGAGAAGAGGAAATG  
AAAGCATTAGAAGCAGATTTCTTGACCAATATGCATACATCAAAGATTAGTAAAGCACATGTT  
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GAGGAAACAGGAGAAGTTCATGAAGAGGAGCTTGTGCAAGAAGGAAACTTCTACTGCTTT  
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TGGAGTAGATATTAATTAAGTCACCTGTATAATGTTTTGTAATTTTGCAAAACATATCTTGAGT  
TGTTTAAACAGTCAAAATGTTTGATATTTTATACCAGCTTATGAGCTCAAAGTACCTCGGCCG  
CCACCGCGGTGAGCTCCAANNNN

&gt;278

NNNNAGTCGACCACGCGTCCGGCAAGGCGTCCAGGAGTGACCTGGGGCTGTGGA  
GAGCGACCCGTGGCCTTGTTTCAGTTCTCTATTAGAACTTGAACCTTTCCTAAGGGAC  
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CATTTTGACAGACGGACTGGAACTGATGGAACCTACAAAAATGTTTTGAAGATTCAAATGGA  
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TCTTTAGAACGTCAGACTTGGGATCAGCTCTTGCCCTACTACCAGCAGGAGGCTAAAGAGAT  
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TTGGGTCTTCTCAGAATGAAGTTCTTAATACAAAACCTGACTACCAGAAAATATTACAGAACCC  
AGAGCAAAGTCTTTGACTGTATGGAGTTGGTGATGGATGAACTGCAAGGATCAATGAAACAG  
CTGCAGGCCCTTATGGATGAAAGTAGCTGCCCGGGCGAACGCCACCGCGGGGAGCTCCAN

&gt;279

NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
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CCGGCTGATGGTCATGGAGATCCGCAATGCTTATGCTGTGTTATATGACATCATCCTGAAGA  
ACTTCGAGAAGCTCAAGAAGCCAGGGGAGAAACAAAGGGAATGATCTATTGAGAGCCCTC  
TCTCCATTCTGTGATGAGTACTCTTCTGCACTGTTCTTTCTTCTAATAAACTTTCTTTTC  
GAACCTATACTGTCTTCTGTAATTTCTTCTTACTACCCTATGACCGGTGAGCCAACCACTTTC  
CGATGCCAGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTATACCTTTCC  
ACTTGGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACATAAAAGAGAAGAGTTAAT  
TACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTTGAACCAAGGGAATCATTTAAGA

Table 4

AGTGTCTGGTATTTTTCAAATTTCTGTCAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAAT  
AAAGGATGGAGACATGCTTATTTTATTTAACTCCCCCAAAAAAAAAAAAAAAAAAAGTACCT  
GCCCCGGCGGCCGCCCGGGCGGCCGCTCN  
>280  
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CCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTC  
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GGTAATAGTGTCCGACAGCAGATTTAAGGGATGCTCTCAATAATGGAAGTGAAGTGAAGT  
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TGCCGGAGCCTCTGCTGACACATAAACACTTCAATGCACACCTCAAAATCGCTGATTTGATG  
CAGTTTGATGATAAAGGAAACAAGACCAATATACCAGACAAGGACCGGCAAATTGAAGTCT  
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TACCGTGACCCGACTGATACCTTAACCCCACTCACTGGATGATGTTTGAAGCTGTGCCTT  
CTGAGAGAGTGCTTAGGCCCTGTCTCTCTTTTTAATATTATGGGGAAACCACTAATATCCA  
ACCAGCTTATACAGCACACTAAGGTGGGCTTCAGTGCTCACTCAATGTGTTTAGGCAGATTC  
CACTTTTGAATAAATATGAAATGTGTGCTCAACTGCCAGTAATTTTTTAAAGCACTGTCC  
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CCTCAATACCTAATTTGTGTCCAAAGAATTTATAGCTCTTCTGGACATTTTTTATTATTCTTG  
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TCTCTCTCTTCCCTTCTCCTCAGTGATGTGAAATAATTGTGTTTTGCTGAAGTGTATCTTC  
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CTCTCTTTGTGAGAAGGACACAGGTGGTAATTTGGAGATGGGGCCAGAGCTTCTGGCTTTT  
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GGTGTCTGCCAGAGAGCAGCATGTAGCAGGGGGGAATGCTCAGGTTTGTGCTGGCTCT  
GTGGAGCTGTACAACCTTCTCACCTGTGGGTTGGAGCCGAGTCAGGCCACTATGGGGAA  
GCAGTTGCCCAACAAATGTGTTTGTGACCTATTTCTAACTGTTGAATATGCTGCACCAT  
TGCTGAAATGAAAGATGACTCTGGGGGAGCAGAGCTTGGCCTTGTGCCAGCTGGCAGCCC  
CCTCTGCCAGCCTTCTGCTGCTTTTGTGCTGTAAACAGCAATAGTGGAGAAAAATGTAAAT  
TTGGTCTTCCAGCTTAATGCAGTGTGAACAATAGATGGTTAGGAAAACAAAAGTCTTAGAA



Table 4

GCCCCCTTTCTCTAGAGCAGTTTTATGTCATTTGTAAAAACACATATTAGCAAATTCGTTTCGCG  
TAGGTTTCTATTCAATATTTGACTTTTTTTTTCTTATTAAGAAAATGAAATCCCTTACACCAGAT  
ATCAGTTAATTCAAACAGAAAACCCCTTTGGGTATCANNNNN

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NNNNNNGGCGGCCGAGGTACGCGGGGGGAGACATGTGGAGTCCCAGCAGAGGCC  
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GAAAGCCTGGGAGAATGAATAAACAGACTAGGTTGAATCCATACAATGGAATGGTAGCAGAC  
AATAAAAAGAAAATGAACTATTGATGCCCTACTGCACAGCAGAAGCTCTGAATCGTGTTT  
CTGAATGAAAGAAGTCAGAGATGAAAAGATGGGCCAGGAGTCCAGTTTCTGGAAGGCCAAG  
AATCGAAGTAGCAAGCTGCAGCCGTTTTCCAGACAAGCATGATGTGGGGATGCAGAGAAT  
TCAGGACTGGAGGGGCAAACTCCGATGTGACTGAGGCCCACTGCCAAATGGCGGCATGC  
TCAGATAGCACCCAAGAATTTGGGGAaaaaaACTGGTGCTCACAGCN

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CAAAAACCTGGAGACTTTTAATGTATTTCTTTAATTTGCGACGCGTCCGATTTTGCAGT  
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GCAGCTGGTCAAATTGCATATTCAGTGTGTACAGTATTGGAAATGGATCTGTCTTTGGTAA  
GATCAGCCTATAATTCTTGTGCTGTTGGATATCACCCCATGATGGGTGCTCTGGACGGTGT  
CCTAATGGAAGTCAAGACTGTGCCCTTCCCTCCTGAAAGATGTCATCGCAACAGATAAAG  
AAGACGTTGCCCTCAAAGACCTGGATGTGGCCATTCTTGTGGGCTCCATGCCAAGAAGGGA  
AGGCATGGAGAGAAAAAGATTACTGAAAGCAAATGTGAAAATCTTCAAATCCCAGGGTGCAG  
CCTTAGATAAATACGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTAATCCAGCCAATACCA  
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CGTTTTGGATCACAACCGAGCTAAAGCTCAAATTGCTCTTAACTTGGTGTGACTGCTAATGAT  
GTAAAGAATGTCATTATCTGGGGAAACCATTCTCGACTCAGTATCCAGATGTCAACCATGC  
CAAGGTGAAATTGCAAGGAAAGGAAGTTGGTGTATGAAGCTCTGAAAGATGACAGCTGGC  
TCAAGGGAGAATTTGTACGACTGTGCAGCAGCGTGGCGCTGCTGTCATCAAGGCTCGAAA  
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GAACCCAGAGGGGAGAGTTTGTGTCCATGGGTGTTATCTCTGATGGCACTCCTATGGTGT  
CCTGATGATCTGCTCTACTCATTCCCTGTTGTAATCAAGAATAAGACCTGGAAGTTTGTGAA  
GGTCTCCCTATTAATGATTTCTCACGTGAGAAGATGGATCTTACTGCAAAGGAACTGACAGA  
AGAAAAAGAAAGTGCTTTTGAATTTCTTCTGCTGCTGACTAGACAATGATGTTACTAAATG  
CTTCAAAGCTGAAGAATCTAAATGTCGTCTTTGACTCAAGTACCAAATAATAAATGCTATAC  
TTAAATTACTTGTGAAAAACAACACATTTTAAAGATTACGTGCTTCTTGGTACAGGTTTGTGAA  
TGACAGTTTATCGTCATGCTGTTAGTGTGCATTCTAAATAAATATATATTCAAATGAAAAAAA  
AA  
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tgaagaagacacatccttgtgtgggtctagacgggaaccacaccgaaaagataaggacgggggaaatacaatgggtatagtgaa  
caggcttttggcaaatgtcgtgtttatata

&gt;284

NNNNCGCGGCCGCGTCGACNNGGCTGNGAGAAGACGACAGAAGGGGGGGTGACAGA  
GCGAGATTCTATCCTAAAAAAGCAGCGGCTCGTGTTCGC  
GGCCGCGTCGACACGGCTGCGAGAAGACGACAGAAGGGGGCTCTAAGCTGCAGCAAGAGA  
AACTGTGTGTGAGGGGAAGAGGCCTGTTTCGCTGTCGGGTCTCTAGTTCTTGCACGCTCTTT  
AAGAGTCTGCACTGGAGGAACTCCTGCCATTACCAGCTCCCTTCTTGCAGAAGGGAGGGGG  
AAACATACATTTATTCATGCCAGTCTGTTGCATGCAGGCTTTTGGCTTCTTACCTTGCAACA  
AAATAATTGCACCAACTCCTTAGTGCCGATTCCGCCACAGAGAGTCTTGAGGCCACAGTCT  
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CCGAGAGCGCTCGTGAAGTGAATCAACTGCTTCAGGGAAAAAGAAAAAAGAAAAAAGAA  
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TCCTCTCTACTTTAGCACGGTCTCCAGACTCAGCCGAGAGACAGCAAAGTGCAGCGCGGTG  
AGAGAGCGAGAGAGAGGGAGAGAGACTCTCCAGCCTGGGAAGTATAACTCTCTGCGGA  
GAGGCGGAGAACTCCTTCCCCAAATCTTTGGGGACTTTTCTCTTTTACCCACCTCCGCCC  
CTGCGAGGAGTTGAGGGGCCAGTTCCGCCGCCGCGCGCGTCTTCCCGTTCCGCGGTGTGCT  
TGGCCCGGGGAACCGGGAGGGCCCGCGATCGCGCGGCGCGCGCGCGAGGGTGTGAG



Table 4

CGCGCGTGGGCGCCCGCCGAGCCGAGGCCATGGTGCAGCAAACCAACAATGCCGAGAACA  
CGGAAGCGCTGCTGGCCGCGGAGAGCTCGGACTCGGGCGCCGGCCTCGAGCTGGGAATC  
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CAGATCGAGCGGCGCAAGATCATGGAGCAGTCGCCCCGACATGCACAACGCCGAGATCTCC  
AAGCGGCTGGGCAAACGCTGGAAGCTGCTCAAAGACAGCGACAAGATCCCTTTTCATTGAG  
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GGAAGAAGGTGAAGTCCGGCAACGCAACTCCAGCTCCTCGGCCGCCGCTCCTCCAAGC  
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CGGCGGCGGGAGCAGCAACGCGGGGGGAGGAGGCGGCGGTGCGAGTGGCGGCGGCGCC  
AACTCCAAACCGGCGCAGAAAAAGAGCTGCGGCTCCAAAGTGGCGGGCGGCGCGGGCGG  
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CGCTGTTGGATTCCGGATTTCATAACAGCGCGGGGGTTAATATCTCACACCGCTTTAGAAA  
ATCGAGCCCTAATTTTCTCCATGGTGTAAACCCTTATTCTGCGGGGTTCTTCAAGGTTGAC  
AGATATCCCTTAACTGGCACCAAGTTTTACCCTTCGGGCCCGGTTTTGTTTAAAGGCGCGG

Table 4

GGGACATTGAGGCAACAAAGGTTGCGTTTTAGGAACACCACAGGCTTTTCGGAAATATGGC  
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>285

CGACCCACGCGTCCGGCGACGCCAAACATGGCGTGTTCCTAGAAGCCGCTTTTCGG  
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TCTTCACATATCTTACTTTGACAGAGATATGTAGAAGATTAGTCTCTCATTATTTTCTATTAAC  
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GCTTCAAGATCAAGATTTAGTGGTCCGTATTGAAACAGCTACAACCTTTGAAGTTAACTGTTGA  
TGATTTTGAATTTAGAACAGATCAGTTTCTACCGTATTTGGAAACCATGTTACACTACTTTTT  
CAGTTACTGCAGCAAGTTACAGAATGTGACACAAAGATGCATGTTTTGCATGTCCTTTCTGT  
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TCATCTTGTTCAGGGATTAGGAGCAGACAGCAAGAACCTGTACCCTTTCCTGCTCCCAGTTA  
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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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TCAGCATTATCCAGGCATCAGGCAACATCTGTCTAGTGTGTCTTCATCAAGAACAGACTATA  
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GTTTTTAGTAGATGACATTTATTTCAATAAAAGTTGCAAATCGGGCTTAATCTTA AAAAAA  
AAAGAAAAAAAAA  
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NNACTATAGTGAATTTGGCCCTCGAGGCCAAGAATTCGGCACGAGGCTTAATGTCT  
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Table 4

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CGACCCACGCGTCCGCGCGAATCCGTGCGGGAACCTGTCTTCTGTCTTTACCCAGA  
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CAGCCTCAGCCCCCAGATGAAGATGGGGATCACAGTGACAAAGAAGATGAACAGCCTCAAG  
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CAAATGAAGATGAAGTAAATCAGGACTCGGTCAAAAAGAAGTCAAAAAACAAATTAATAA  
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GTTCTTTATAGAAAGTTTAGGAAATAGAGAAAAAATTAATAAACTACATCTATTCAATA  
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GCCCATGTGAGGTGCCTCCTGCCAATCACAGACTACCCTTCCCTGGTCTGGAGGTTCAAA  
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TGCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCAACACAGCCTCTACCC  
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Table 4

TGTTTAAACAGTCAAAATGTTTGATATTTTATACCAGCTTATGAGCTCAAAGTACCTCGGCCG  
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>307  
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CTGAGTCTGATGGAAATCTTTGCCACTGCTTTTACCATCGCCACTGAAATCCACATGCGAAA  
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>308  
>309  
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Table 4

TGTGCTGACACTAATCAAGTCCTGTGAGGTTAAATTATTGACCTATCCACTCTACCTCCATT  
GTACAAAAATATTTTACAACAAGCCTGGGTAAGATTCAACAGCATAGTAGTTTTGTATCCAA  
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NNCAAGCATTGTTGTGGTGGTCTGTCCCCTCCCCCTCGTGTTATCTCTATTCCGGG  
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CAGAGAATCACATGTGATCTGTAAATCTTATTCTTCTTTCAGTACTTTCATTTCTCTGAAGA  
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Table 4

AGATGACCTATATGTGTGTTGGCTGGGAGAATATCATCTTAAAGTGAGAGTGATGTTGTGGA  
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GCTGGGGGCAATTGTTTAAAGTCATTTTGTTCCTGACTAGCTGCCTTGCACATTATCTTCATT  
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&gt;315

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AATAAAATATAGAGAAAAGAAAAATAGAGCAGTTTGAGTTCTATGAGGTATGCAGGCCCAGA  
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Table 4

GTTGAAAGAGATGCTCAATATCACTCTGCGCTCTTTCTGATTCAACTTGCTGCGCCTTCAGCA  
ACACACTAAGCTCTTCATTTTTCTCTCAACTTCTCTCAACATACTAGCCAAGTGTCGGTGCC  
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GGCTAGAGCTTTTGTTCAAAAGATCTTGAGCCTGCTTTCTTTGGAAGCTAATGTGGATAG  
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TCTTCAAGTAGCTCTACAAGGCAACTCAAGCTACTGTTGTTAATATCTGATTGATTGAATA  
GTGCTGTGAGTTTCTGTCCAGAAATTACCTCCAGAGTGCCGCAAAAGCTGAGTGGCGTTTCG  
CCTCTGACTTCACCGGCTTTGTAAGTACTGACAGTCAGGAGCAAGGACTTCAAGCAGGCAG  
TGGAGTCCATTGCACCGGCCGCGGCCCGGCTTAGGGACCACCACCGCCCAGCGTGCGCC  
GGCCTTTAGCTTTGCGC

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GGCGCCCGGGCAGGTACAAGGTTTGGTGATGTAGGCGATTTTTTACCACATTTCGA  
ACAGTGATGGTCAGTCACTTTCTGTAGAGTATCTGTGTGCATATTAACGCTCTAATTATATTTT  
AAAATCTTATTTTATATAGGATGTAATTGGAAAATCGATGAATCAAGCAATCTGTATTCCATTG  
TATAGAGATACCAGAAGTGAGGATTCTACACGTAGATTGTTCAAATTTCTTTTCTGTGGAAT  
AATAAACTTCAAATCTACATTATCTTCTTTTACTATTCTAGAAGATCCACTTTATAAAATGTG  
CATCTTAAGGAGACATACTGATATTTCTCAATCTGTGAGTAATGGACTAATTGCTATTAAATTT  
GGGAGCTTTACATATGCCACAACAGAAAAAGTCAGAAGAAGCATCTACAGTTGTTTAGATGC  
ACAGTTTTATGATGATGAACTGTAAACAGTAGTTCTTAAAGACACTGTAGGACGTGAAGGAA  
GAGATAGACTCTTGGTCCAGCTGCCTTTGTCTTAGTATATAACAGTGAAGATTCTGCAGAAT  
ATCAGTTCACTGGGACTTATTCTACAAGGCTAGATGAACAGTGTAGTGCTATTCCCACCCGT  
ACCACTGCTCATCACTGAATGACTTTATACATGCATAATAATGACCACCAGCAGCGCTCCCA  
GAATGAACCATAACAGAGAAAAGTTCATAGATCAAGGAATTCTTTTCAAGTCCAGATTTTGA  
ATCTTTTCAAGTCCACTATTGGTTTCAAGACAGATTCTTTCATCAACACCATCATCATTGGAG  
AAATCGTTGCTCATCTGATCACTGTGACAACCTTCAATTTCTGCTCCACTGTCAGTGCAA  
CTTTCAGTCTGAGGAGATTTCTCATCTTCAACATCAATAAAAGTACCTCGGCCGCCACCGCG  
GGGAGCTCCAA

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Table 4

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NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
TAACTTTGTGGGTCGCTCCTGTGGGTCCTGAAACAATGCAGTTCTCCCCGCGTATGCGACAT  
CCGGCTGATGGTCATGGAGATCCGCAATGCTTATGCTGTGTTATATGACATCATCCTGAAGA  
ACTTCGAGAAGCTCAAGAAGCCCAGGGGAGAAACAAAGGGAATGATCTATTGAGAGCCCTC  
TCTCCATTCTGTGATGAGTACTCTTCTGCACTGTTCTTTCTTTCTAATAAACTTTCTTTTC  
GAACCTATACTGTCTTCTGTAAATTCTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTC  
CGATGCCAGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCC  
ACTTGGAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACATAAAAGAGAAGAGTTAAT  
TACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTTGAACCAAGGGGAAATCATTTAAGA  
AGTGTCTGGTATTTTTCAAATTTCTGTCAAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAAT  
AAAGGATGGAGACATGCTTATTTTATTTAACTCCCCAAAAAAAAAAAAAAAAAAGTACCT  
GCCCCGGCGGCCGCCCGGGCGGCCGCTCN

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NNCTCTGAAGATGATACCAAAATTCCTTTTGATAATTTTTTAAGTTTCCAGCTCTTCAC  
CGAAATGTTGTATTCTTATTTTCAGTGTTTTCTTCCAGACATTTTTAAGGTAATTGGCTTACTAC  
AATATGGACATTCACCAATATGATGTTAAACTCTGTCTACTAGTTAGTAGTCTCTCAGCC  
ACTCATATAAGCATATTTGATGGAAGGTTGTCCACACTGAGAATTATCACACACTTGATCAG  
GAATGGTACCGTCAAGTTGATAAGCATAACAAATTCACAATCCATAGTAAATCAGATTTTT  
CCAGGATAGCACGAGCTGGAAAATCAATTTCTAAAACATCTTTCAAATTTTGTAACACACTAT  
TTTCTGGATCCCTGAAAGCATGGGGAAAAAAATTATGCTGTGAACCTTTGTAATAACCAAAAA  
AGTAAAAATTATATTGCCAAGGTACCTACCACAAATGTATGTTCTGCTCAGCTTAATTCCCA  
GGGGTTTTACCACTTCAGATTAATAAAAAAAAAAATTAATAATTGCATGCTCTACTCTTGGTTTC  
TAAAGCCACATTTGATACAGAATGTTTCTTAACTACTTGATTAGAAAATCAAAATTATATGTAT  
TATGTTAAAAACAATAATTATACAGTTGAGAATGCTGAGACATTGTCATTTAAAAATAACTATCA  
TTATTGCGGTGAACCGAGATCGCGCCATTACACTACATACTGGGCAACAAGAGCAAACTCC  
GTCTCAGACAAAAAATAAAAACTACCATTAAATATCTAATAATTGTCTAATAATTTAACACATGT  
AGGGCAAGGATTTTATGACTCTATTAAAAAACGTTTAAATCTCAGATGTCATACCATGGTCAG  
CTCCAAGAAAGAAGCACTCAGGAAGCATAGTAGGATGCCTGGGGTCTACCTCTATATTTATG  
GCAACATTATTACCTAATGCAATTCTGCGTGCATGTTGCACCCCGGGGAGGTTTTCTGGCT  
CAAGTACCCAGGTCTTCTCATCGATTTTCATCCATAACATCCCAGAATGCCTTTAGTGATTCTA  
TTGCTGCCAAAACTGACTATAAATGCTTATTAAGGAGCTCTGAGGAGAATTTACCTGAGGT  
GTCCAGGAGGCACAAAATGGAACAGGAAAAATCCACAAAATAATCTGGTGATTCTGCAGGATA  
CTTTCCTTCAACTTGAGAGTGATTAAATGCTCTACCAGAAGCATCTTCTGCTTTTAACT  
GATGGTACCTCGGCCGCCACCCGCATACACAAGTTTATCCCAACCAAGAGTTCTATCTCTT  
CAATAAGGCTTGAGTAGAACTGGGGAGTGATTCAAACCTTTTAAATTTGACAACCTGCTTCTCT  
TTTTCTGTATTTTCATTTTCATCTATTGAAGGAAGATATTTATTTCTAAAATGGCTCCTGCAG  
CAGCCAAAATACAAACAGCTATTATTGGTGAAGTTAGCCGGACGCGTGGTGANN

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NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
TAACTTTGTGGGTCGCTCCTGTGGGTCCTGAAACAATGCAGTTCTCCCCGCGTATGCGACAT  
CCGGCTGATGGTCATGGAGATCCGCAATGCTTATGCTGTGTTATATGACATCATCCTGAAGA  
ACTTCGAGAAGCTCAAGAAGCCCAGGGGAGAAACAAAGGGAATGATCTATTGAGAGCCCTC  
TCTCCATTCTGTGATGAGTACTCTTCTGCACTGTTCTTTCTTTCTAATAAACTTTCTTTTC  
GAACCTATACTGTCTTCTGTAAATTCTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTC  
CGATGCCAGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCC  
ACTTGGAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACATAAAAGAGAAGAGTTAAT  
TACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTTGAACCAAGGGGAAATCATTTAAGA  
AGTGTCTGGTATTTTTCAAATTTCTGTCAAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAAT  
AAAGGATGGAGACATGCTTATTTTATTTAACTCCCCAAAAAAAAAAAAAAAAAAGTACCT  
GCCCCGGCGGCCGCCCGGGCGGCCGCTCN

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TTGGAGCTCCACGCGGTGGCGGCCGAACGTTGGCTTATCATAATATTGCTGACAGC  
AATAAACTGCCACATCTTCAGCCTGCAGGCTGCTGGTGGTGAGAGTGAAATCTGTCCCAGA



Table 4

CCCGCTGCCACTGAATCGGTCAGGGACCCCGGATTCCCGGGTAGACGCCCAGTAAATGAG  
CAGTTTAGGAGGCTGGCCCGGTTTGTGCTGGTACGCGGAGAATGGCTCGCAAGCTGACT  
GTGAGCTCGGAAATCCTTTTAAAGAAATTCAAATGTCACTTTTATTGGTTTAAAGTACCTC  
GGCCGCCACCGCGGTGAGCNNN

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TGTCACAGACACTCCTGGGTTTGAATTTTGTGTTCTCTGTCTCTTTGATTTCTGG  
AAGACGACACCATGACAATTTCAAAGAAAATAGAACAAAATGAAGGAAAAAGAGGCTCTGTC  
TTAGCACATTCCTGTGACCAGCCTGCTGTCTGTGGCGTGCCCTCCTGGCCCGGCTTGCCA  
CATGTTTCGTTTTTGTGGTTGTTGCCTGGACAGGCAACTCTGCAGGGCTGCTTCTCTACGCAT  
CCCTTTGCCTGCCTGCCTGTGCCAGGGGTTGTCAAGGGCTTTTGGGTCAGAGTGGGCACCC  
CTTTCTCCAAGGCTCCCTGCAACAGCTGGCCTGTCCCTGGTGGGGCTGACAGCTTTCTTCTT  
ACCCTGCCAGGCTGGCCAAGCCCCAGAGGTGACCTATGAGGCAGAAGAGGGCTCCTTGTG  
GACGTTGCTACTCACTAGCTTGGATGGGACCTGCTGGAGCCAGATGCTGAGTACCTCCAC  
TGGCTGCTAACCAACATCCCGGGTAACCGGGTGGCTGAAGGACAGGTGACGTGTCCCTACC  
TCCCCCCTTCCCTGCCGAGGCTCCGGCATCCACCGTCTTGCCTTCTGCTCTTCAAGCA  
GGACCAGCCGATTGACTTCTCTGAGGACGCACGCCCTCACCTGCTATCAGCTGGCCAG  
CGGACCTTCCGCACTTTTGATTTCTACAAGAAACACAAGAAACCATGACTCCAGCCGGCTTG  
TCCTTCTTCCAGTGCCGCTGGGATGACTCCGTACCTACATCTTCCACCAGCTTCTGGACAT  
GCGGGAGCCGGTGN

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TCCGAAATGGGGGAAAATCACTGCTCTTCCCAGAGCGCATAACATGTTTTAACCGTCT  
GGATCTGCCCTCCCTACCCATCCTTTTCCATGCTTTATGAAAACTGTTGACAGCAGTTGAAGA  
AACCAGTACTTTTGGACTTGAGTGACCTGGAAGCTGAATGCCATCTCTGTGGACAGGCAGT  
TTCAGAAGCTGCCTTCTAGAAGAATGATTGAACATTGGAAGTTTCAAGAGGATGCTTCTTTA  
GGATAAAGCTACGTGCTGTTGTTTTCCAGGAACAAGTGCTCTGTACATTTGGGGACTGGAG  
ATGAGTCCTCTTGAAGGATTTGGGTGAGCTTGATGCCAGGGAACAACCCAACCGTCTTTC  
AATCAACAGTTCTTGACTGCCAACTTTTTCCATTTGTTATGTTCCAAGACAAAGATGAACCC  
ATACATGATCAGCTCCACGGTAATTTTTAGGGACTCAGGAGAATCTTGAACTTACCCTTGAA  
CGTGCTTCAAGCAAACCTGGCAGCATTGGGCCAATCTCCAAATTAGAGCAAGTTAAATAAG  
ATAATAAAGTAAATATATTTCTGAAAGTACATTCATGTAAGCCCTAAGTTATAACAGAATAT  
TCATTTCTTGCTTATGAGTGCCTGCATGGTGTGCACCATAGGTTTCCGCTTTCATGGGACAT  
GAGTGAAGTAAAGTCAATATGAGGTACCTTTACAGATTTGCAATAAGATGGTCTGTG  
ACAATGTATATGCAAGTGGTATGTGTGTAATTATGGCTAAAGACAAACCATTATTCAGTGAAT  
TACTAATGACAGATTTTATGCTTTATAATGCATGAAAACAATTTTAAATAACTAGCAATTAATC  
ACAGCATATCAGGAAAAAGTACACAGTGAGTTCTGTTTATTTTTGTAGGTTCAATTATGTTTAT  
GTTCTTAAAGATGTATATAAGAACCTACCTATCATGCTGTATGTATCACTCATTCCATTTTCA  
GTTCCATGCATACCTCGGGCATCATGCTAATATGTATCCTTTTAAAGCACTCTCAAGGAAACAAA  
AGGGCCTTTTATTTTATAAAGGTAAAAAAAATTTCCCAATATTTTGCATGAATGTACCAAA  
GGTGAAGGGACATTACAATATGACTAACAGCAACTCCATCACTTGAGAAGTATAATAGAAAAT  
AGCTTCTAAATCAAACCTTCTTACAGTGCCGTGTCTACCACTACAAGGACTGTGCATCTAAG  
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TCTCTTCCATCCATCAAATACTTTACAGGATGGCATTAAATACAGATATTTTCTGATTTCCCCCA  
CTGCTTTTTATTTGTACAGCATCATTAAACACTAAGCTCAGTTAAGGAGCCATCAGCAACACT  
GAAGAGATCAGTAGTAAGAATTCATTTTCCCTCATCAGTGAAGACACCACAAATTGAAACTC  
AGAACTATATTTCTAAGCCTGCATTTTCACTGATGCATAATTTTCTTATTAATATTAAGAGACA  
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GAAGGTATTCCTCATTTTAATTGCTTTTGGGATTACTCCACATCTTTGTTTATTTCTTGACTAAT  
CAGATTTTCAATAGAGTGAAGTTAAATTGGGGGTCATAAAGCATTGGATTGACATATGGTTT  
GCCAGCCTATGGGTTTACAGGCATTGCCCAACATTTCTTTGAGATCTATATTTATAAGCAGC  
CATGGAATTCCTATTATGGGATGTTGGCAATCTTACATTTTATAGAGGTCATATGCATAGTTTT  
CATAGGTGTTTTGTAAGAACTGATTGCTCTCCTGTGAGTTAAGCTATGTTTACTACTGGGACC  
CTCAAGAGGAATACCACCTTATGTTACACTCTGCCTGCACTAAAGGCACGTACTGCAGTGTGAAGA  
AATGTTCTGAAAAAGGGTTATAGAAATCTGGAAATAAGAAAGGAAGAGCTCTCTGTATTCTAT  
AATTGGAAGAGAAAAAAGAAAACTTTTAACTGGAAATGTTAGTTTGTACTTATTGATCATGA  
ATACAAGTATATATTTAATTTTGCANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
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Table 4

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GGGCTTACAGTGGCGGGAGTTGGAGGCGATAACGATTTGTGTTGTGAGAGGCGCA  
AGCTGCGATTTCTGCTGAACTTGGAGGCATTTCTACGACTTTTCTCTCAGCTGAGGCTTTTCC  
TCCGACCCTGATGCTCTTCAATTCGGTGCTCCGCCAGCCCCAGCTTGGCGTCCTGAGAAAT  
GGATGGTCTTCACAATACCCCTCTTCAATCCCTTCTGACTGGTTATCAGTGCAGTGGTAATGAT  
GAACACACTTCTTATGGAGAAACAGGAGTCCAGTTCTCTCTTTGGATGTACCTTCTCTTCT  
GCTCCCAATATGGAACATGTACTAGCAGTGTCCCAATGAAGAAGGCTTTGTTGCGATTGTATAA  
CACAGAATCACAAGTTTCAGAAAGAAGTGCTTCAAAGAATGGATGGCTCACTGGAATGCCG  
TCTTTGACCTGGCCTGGGTTCTGGTGAACCTTAACTTGTTACAGCAGCAGGTGATCAAACA  
GCCAAATTTTGGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGTCATCAATGCAG  
CCTCAAGTCAGTTGCCTTTTCTAAGTTTGAGAAAGCTGTATTCTGTACGGGTGGAAGAGATG  
GCAACATTATGGTCTGGGATACCAGGTGCAACAAAAAGATGGGTTTTATAGGCAAGTGAAT  
CAAATCAGTGGAGCTCACAATACCTCAGACAAGCAAACCCCTTCAAACCCAAGAAGAAACA  
GAATTCAAAAGGACTTGCTCCTTCTGTGGATTTCAGCAAAGTGTTACTGTGGTCTCTTTCA  
AGACGAGAATACCTTAGTCTCAGCAGGAGCTGTGGATGGGATAATCAAAGTATGGGATTAC  
GTAAGAATTATACTGCTTATCGACAAGAACCCATAGCATCCAAGTCTTTCTGTACCCAGGTG  
GCAGCACTCGAAAACCTGGATATTCAAGTCTGATTTTGGATTCCACTGGCTCTACTTTATTTG  
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CAACCTCCTACTGTGCTCCTGGGTCACTTCTCAAGAGGTCACGTCTGTGTGCTGGTGTCCATC  
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AGGCTTAGAGGAGAAACCAGGAGGTGATAAACTTTCCACGGTGGGTTGGCCTCTCAGAAG  
AAAAAAGAGTCAAGACCTGGCCTAGTAACAGTAACGAGTAGCCAGAGTACTCCTGCCAAAG  
CCCCCAGGGTAAAGTGCAATCCATCCAATTCTTCCCGTCATCCGCAGCTTGTGCCCAAG  
CTGTGCTGGAGACCTCCCTCTTCTTCAAATACTCCTACGTTCTCTATTAACCTCTCCTGC  
CAAGGCCCGGTCTCCCATCAACAGAAGAGGCTCTGTCTCCTCCGTCTCTCCAAGCCACCT  
TCATCTTTCAAGATGTCGATTAGAACTGGGTGACCCGAACACCTTCCTCATCACCACCCAT  
CACTTCACCTGCTTCGGAGACCAAGATCATGTCTCCGAGAAAAGCCCTTATTCCTGTGAGCC  
AGAAGTCATCCCAAGCAGAGGCTTGCTCTGAGTCTAGAAATAGAGTAAAGAGGAGGCTAGA  
CTCAAGCTGTCTGGAGAGTGTGAAACAAAAGTGTGTGAAGAGTTGTAAGTGTGTGACTGAGC  
TTGATGGCCAAAGTTGAAAATCTTCATTTGGATCTGTGCTGCCTTGCTGGTAACCAGGAAGAC  
CTTAGTAAGGACTCTCTAGGTCTACCAATCAAGCAAAATTGAAGGAGCTGGTACCAGTAT  
CTCAGAGCCTCCGTCTCCTATCAGTCCGTATGCTTCAGAAAGCTGTGGAACGCTACCTCTTC  
CTTTGAGACCTTGTTGGAGAAGGGTCTGAAATGGTAGGCAAAGAGAATAGTTCCCCAGAGAAT  
AAAAACTGGTTGTTGGCCATGGCAGCCAAACGGAAGGCTGAGAATCCATCTCCACGAAGTC  
CGTCACTCCAGACACCCAATTCCAGGAGACAGAGCGGAAAGACATTGCCAAGCCCGGTAC  
CATCACGCCAGCTCCATGAGGAAAATCTGCACATACTTCCATAGAAAAGTCCCAGGAGGACT  
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TCCACTAAAACAAGCTGAGCTTTGGTCCACTAAAACAAGATGAAAAATACAAGAGTGACTCTA  
TAACTCTGGTCTTTAAGAAAGCTGCCTTTTCAATTTTAGACAAAATCTTTCAACGCTGAAATG  
TACCTAATCTGGTTCTACTACCATAATGTATATGCAGCTTCCCGAGGATGAATGCTGTGTTTA  
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CATCTTCTCTATAATAATGACATCCAGTTCATGGAGGCCAAAAACAAGTTTCTTGTTATCCT  
GAACTTTCTATGCTCAGTGGAAGTATCTGCCAGCCACAGCATGAGGCCTGTGAAGGCTG  
ACTGAGAAATCCTCTGCTGAAGACCCCTGGTTCTGTTCTGCCTCCAACATGTATAATTTTATT  
TGAAATACATAATCTTTTCACTATGCTTTTGTGGGGTTTTTTTTTAAGTATGTGTAAAAATGTGA  
TGCTCAGATAAGTACATTTATATCAGTTCAGTGTTAAATGCAGTCTCTTGAGTTAAAGTCATC  
TTTATTTTAAATGCAGTGATAAATGTCAACTCTTCGGAGAACTAGGAGAACAAACAGAAA  
GCTGTGTTTGTCTTTTTCTCTCAAATATATCTCCCGTATGAGATTTCAAGGTCCCCATGTTTT  
ACCAAGCAATCTGCTATGTCAGCCAACCCAACATCACTTTCTACAGGAGGTTATGATTTTTGC  
CATTTACTAGAGGAAGATGTTTTATGAAATCAATTTGGGGTTTGAATTCAGGTGCAGTCATCA  
GTTCTTTAGGGGCTGCAATGTTTTAAAAAAAATAGTCATCAGATTTTAAGAAAAAAGTGATG  
ATTTCTTATTGATATTTTTGTAAACAGAATATAGCTCTTAACTGAAAATCCAGAACCAAGCAT  
AAATCTTGAGTTTCTTTTCTATGTACATAAAAAGCAATAGCCTTTTAGTATAGATAGCCCTGAGC

Table 4

CAAAAAGTAATAGAATTTTCTCTAGATATTTAATACAGAGAGTGTATAGACTGACTCTAAGTTA  
ATAATGTGCAAAATATCTTAAACATCCCTCCCCTTATTCAACAATTATGTATCAGTGATCTTGA  
ACCATGTTTTATATTTTTCACCTTTGTAACCTCATGGAAAGAGGCTTTACATACTTTCTATGT  
ACTATTTACTTAGAAGGGAGCCCCCTTCCAGTCATGAACTTCATTTGTTTTATCCATATCCC  
TGAGGACTGTGTAGACTTTATGTCAGTTCTGTGTAGACTTTATGTCAGTTTTGTCTATTATTG  
AAAATCTATTCTGACAACTTTTTAATTCCTTTGATCTTATAAGTTAAAGCTGTAACAACTGAAAT  
TGCATGGATCAAGTAAGCATAGTTTTATCCAGGGAGAAAAATAAAAGGAAGCCATAGAATTG  
CTCTGGTCAAAACCAAGCACACCATAGCCTTAACTGAATATTTAGGAAATCTGCCTAATCTGC  
TTATATTTGGTGTGTTGTTTTGACTGTTGGGCTTTGGGAAGATGTTATTTATGACCAATATCT  
GCCAGTAACGCTGTTTTATCTCACTTGCTTTGAAAGCCAATGGGGGAAAAAAATCCATGAAAA  
AAAAAGATTGATAAAGTAGATGATTTTGTGTTGATCCCTACCCATCTCCTGGCAGCCCTACT  
GAGTGAAATTGGGATACATTTGGCTGTCAGAAATTATACCGAGTCTACTGGGTATAACATGT  
CTCACTTGAAAGCTAGTACTTTTAAATGGGTGCCAAAGGTCAACTGTAATGAGATAATTATC  
CCTGCCGTGTGCCATGTCAGACTTTGAGCTGATCCTGAATAATAAAGCCTTTTACCTTATCTG  
ATGTCCTTTTTGAGCTTTTTGCATTACCTAGAAGCAGTCTACAAAAAGAACTATAGTAGTCA  
AGAATCCCTTCTACTTGTTCAATAAAATGTTTATCCCCAGTTATAATCTATTTCAAGCTGAAA  
GAGCTTTTAATAAAAAACATCTTGCNNNNNNNNNNNNNNNNNN

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NNNAGTGGCATGGGGGTGGGGTCTGACTCCACACACTAGCCACATGGCCAACAGC  
ATAGTGAAACGGGGTCCCATTCCTCATGTCTGTAATCCAATGGTGGCTCATAGAGATG  
GAATGCAGAGGGTTGCAAAAGAAATCAGAAGTTTGGTTCCAGGACAGTTTCTAGATGAAC  
TACTTTTCTCCCAGCCCTCTCTCTTTACCGAGGGTGAGCAATACAAAAGGGGTGTGCTG  
CAGCTCCAGCTTTCAGAGTACCGCCACAGATCCACAGCCTGTCTGATCTGAGAGCTGAGC  
CGATGCCTTTTCTTCTGGCTGTGTCTTTTACCTTCTGGACAAGTAGGATGAGGTGAAAGG  
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GTGTGTGCCAGTCCCTTGTGCTGACACAGGACGTCCCTTAAAGTCCAGTCCCTGGCGATTCT  
GAATCTCACTCTTTCCCTCTTTAAAGTTCAGGATCCTTCTTATCTCCCTTTCCCCCATAGTCT  
GGCTTAGTCTCTTTGTTTCCGGGCGTAAAAGCACTGGGATTAATATGTTTTCCAGGCTGAGG  
GAAAACACAGGAATGTGATGTCGAAAAGGGACTTTTTTTTTCTTTCACTGTGCTTCTCTCCT  
CCCTTTATTTCTCCCTACCTTTTTCTCCTCTTTTTCTTCTTTCTTTCTTTCTTCTGCTG  
GATTCACTCCAGAAATGTTAGGACTACCTCAGTTTTGCTCCAAACCAAACCTCAAACAACAG  
CAGCCACTGGAAATCAAGGAACTTCACTAAGAATTTAACAGATCAGCAAAACACCGCCTCC  
TTCCCATTTTAGCACGTTTCAAGTGGACTCAGTGAGGAGTGAGAAGGCTGTTCTTTGGGGTG  
GGGTAAAGTTTTTAACTCCACACATCATATAAATCACTTTAGAAGAGGATGACTGGTGCCT  
TAACCCCTTCCAAACCAAGTCATCGGGGTAACCTTCTTCCAGTATGTTTTTACCGCGTCGAC  
TCCNNN

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ACTTGACTGGTAACAACCTTTCAAATTCTTCTACTTACTCCCTCTTCTTCAGCTTCACAT  
CTGGGAAAACCTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAGAGGGGAAGCTCAAT  
CCATGCAAGCCCCAGATAATATAGAAACCTCCCCAACCTTACCCTACACCCCTCACCTCC  
CAATCCAAGCCAGTCTCCTTTCCCTGCTTTCTCAAACCATGTTTGGACCTGCTTGAAGCTC  
CCTCTGCTCTCCCTAGAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGT  
GTGTGTGTTGATCATCAGCCTCAACATCTGAAGCAAATGTTGGGTGGGGGTN

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GACCCACGCGTCCGGTTTGTGGAGTCGCGAGTGCTGGTGTCCGGCTGGAGTGCAA  
TGGCGTGATCACAGCTCACTGCAACCTCCGCCTCCCGGGTTCAAATGTTTGATAGGTTTAT  
ATTGTCTTTTTCCATCCTCTTCAGACATCCTTCAAAGTTGAGCCCTTTTTTCCGCTGTGAGTC  
TCTACACATGTCTGACACTCTCATGTCCCACGGATTACAGAAAGACATTCTTGCAGGAGAA  
CATGGCTTCCCAGTGATGTGGGAAAGATGGACTCTGATCTCCAGGGTAGAAGTGCAACCA  
GAGTAAGCCAGTTTCGTTGAAGCAAATGATGGCTGCAGTGAAGAGTACCGAGGACACCCAT  
CCTCAAACAAGGATCCACACAGGGCCAGAAATCAGCCCTCCAGGGTAACAGCCCTGACTC  
CGAGGCCCTCCGTCAGCGCTTCAGGCAGTTTTGCTACCAGGAGGTAACCTGGCCACATGAA  
GCTTTTAGCAAACCTCTGGGAACTCTGTTGTGAGTGGCTGAGGCCGAAGACCCACTCAAAGA  
GGAAATCCTGGAGCTGCTGGTTTTGGAGCAGTTTCTGACTATCTTGCCAGAGGAGATCCAGA

Table 4

CCTGGGTGAGGGAGCAGCATCCAGAAAACGGCGAGGAAGCTGTGGCTCTGGTTGAGGATG  
TACAGAGAGCTCCTGGACAACAGGTTCTAGATTCTGAGAAGGACTTGAAAGTACTCATGAAG  
GAGATGGCCCCCTTTGGGAGCAACCAGAGAATCACTGAGATCCCAATGGAAACAGGAGGTTT  
AGCCAGAGGAACCGACTTTTAAGGGATCACAGAGCTCACACCAAAGACCAGGGGAACAGTC  
AGAAGCCTGGCTTGCTCCTCAGGCTCCCAGGAACCTGCCTCAAAACACAGGTCTCCACGAC  
CAGGAGACAGGTGCTGTGGTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGACAAC  
AGAGCTGTATCCCTCTGTCAGCAAGAATGGATGTGCCAGGCCCTGCACAAAGGGCCCTCT  
ACAGGGGTGCCACCCAGAGGAAGGACAGTCACGTCTCGCTGGCAACAGGTGTGCCCTGGG  
GCTATGAAGAGACCAAGACGCTCCTGGCTATTCTTAGTAGTTCTCAATTTTATGGAAAACCTCC  
AGACCTGTCAGCAGAACAGCCAGATCTACAGGGCCATGGCGGAAGGACTCTGGGAGCAGG  
GTTTTCTGCGGACCCCAGAACAGTGTGCGACCAAGTTCAAAGCCTACAGTTGAGTTACCGC  
AAAGTGAGGAGAGGCCGTGTGCCTGAGCCTTGATCTTTTATGAGGAAATGAATGCTCTTTC  
AGGCTCCTGGGCCTCTGCACCTCCTATGGCAAGCGATGCTGTTCTGGCCAGAAGGAAGT  
GATATTGAGGCTGGAGAGCTGAATCACCAGAATGGGGAACCCACGGAGGTAGAAGATGGCA  
CTGTGGATGGTGACAGAGGATGAAAAGGACTTCAGGAATCCTGGCCAGGAAGTCAGGAA  
ACTAGACCTGCCAGTGCTGTTCCCAAACAGACTTGGTTTTGAGTTCAAGAACGAGATTAAAA  
AAGAAAATCTAAACATGGGATGATTGAGAGGAAGTAAGAAATAAACCAAGGCTTTTACAGAG  
GAAAGTTCCCGAGGAGTCTATTGGCACTCTGAGGCTACCAACAGGCTTGGGAGAGTGAGCC  
AACATCCAGAAGGGCAATGTAGAAATTCTCCAGGCAGAGTTGAGGAGAAACCCCATTTCC  
AGAGAGATGAGTCCCGAAGTTTGGTGCCGGACAAGCCTGTCCAATTTCTCTGGGGGAAAAC  
TGTCCGATGTGCTCTCCCAAGCAGGTCAATGGAAAATTTCAAGTCGGTTGGGAACTTTCCA  
GTCTATTGTCGGNNN

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TCGACCCACGCGTCCGGGGCCCGCGCTGACGGTGTCCCTGGGGCTCTGCGCTCGTC  
CGGCCGGCCCCGGCCTCGCCGCCCGCGCAGTACCCAGCCCCGGCCCCGCGACCCGCCT  
CTACTGCCGGCTCCGCGCCCTTCCCCGAGGGCTGGATGATGGGCTGTTTCGCCCTGCAAA  
CGGTGGACACCGAGCTGACCGCGGACTCGGTGGAGTGGTGCCCGCTGCAAGGCTGCAGG  
CACCTGCTGGCGTGCGGGACCTACCAGCTGCGCGCGCCGGAGGTACGCGGGATAATCAAG  
GTGTCACATCCCGGTGGCTGGACATGCCCTCTTGGGCTTGGCAGATGCCAGTGCCATCCATA  
CAACTACTCCGCCTGGTGGAATCTGAGAAGAGCCACGTGCTGGAGCCATTGTCCAGCCTTG  
CCCTGGAGGAGCAGTGCTGGCTTTGTCCCTAGATTGGTCCACTGGGAAAACCTGGAAGGGC  
CGGGGACCAGCCCTTGAAGATCATCAGCAGTGAATCCACAGGGCAGCTCCACCTCCTGATG  
GTGAATGAGACGAGGCCAGGCTGCAGAAAGTGGCCTCATGGCAGGCACATCAATTCGAG  
GCCTGGATTGCCGCTTTCAATTACTGGCATCCAGAAATTGTGTATTAGGGGGCGACGATG  
GCCTTCTGAGGGCTGGGACACCGGTTACCCGGCAAATTTCTTCCACAGCAAAGACAC  
ACCATGGGTGTGTGCAGCATCCAGAGCAGCCCTCATCGGGAGCACATCCTTGCCACGGG  
AAGCTATGATGAACACATTCTACTGTGGGACACACGAAACATGAAGTAGCCGTTGGCAGATA  
CGCCTGTGCAGGGCGGGGTATGGAGAATCAAGTGGCACTCCTTTTACCACCAACCTGTTT  
TGGACGTCTGCATGCACAGN

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NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTGTTATATTTTTTTTTTACAT  
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Table 4

TTATTTATTTTGTGGGTTTTTCAGGGTGACTAAGTTTTTCCCTACATTGAAAAGAGAAGTTGCC  
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 AACTCAGTGTGCTGAAATTCACCTGACTTTTTTGAAAAAATAGTCGAAAATGTCAATTTGGT  
 CCATAAAATACATGTTACTATTAAAAGATATTTAAAGACAAATTCCTTTTCAGAGCTTCTAAGAT  
 TGGTGTGGGCAGATTTTTAAGAGCCTAGAGTTTGTCTTAGAGAAAGAGTGAGGAGATAGTA  
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 ATTTAAAGCCTTTACTTTTTGGCCTCATGCTGCTAGGTGAAAGAGTGTTGTTTCACAGGACTTG  
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 CCCAATCACTCAATATCCAATTAATAATATGGAATAAGTTTCAAATAAAATATGGAATTACATTT  
 CTCTGCTTCTGATAACTGTGGTCACTAATCAACCCCCATGTTATCCCCGATATGTCTAGGACT  
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 TTAATTTCTCACACTGTTTCTGCAGGTTCCGGTACCAAAGAAGATGCAGTTCAAATACTGCC  
 AGTTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCTACTCTTGCCTTAAACTTTTTCTCA  
 CCACACCCACCTTCCCACATGCATGATATCCAAGGTGACAGACCTGGATTAGAATCCACTC  
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 AGGAAATTCGGACGCGTGGGTGCACTCCCTATAGTAGN

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 ATTTGCCCTGCTCTGTTGGTGGCCTCACAGCAAGGCAAAAGCATTATGGCAATCTAGGGTTT  
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 CCTCAGAGCAATGAAATCCAATGAAATGAACTATCACTTCTCCACTTTCCTTGTCTATTTT  
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 GCCTATACTGTGGGAAATAAATTCTAGACGCTGGCTTCTTTCTGTAGTAAACATGTGGGCCC  
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 AGATGTCCAGTCTAGAGTCTCATAATTGTATGGTAAACACTAAAATGGTGGTATGATCCAGTT  
 GCCATGGAAACACAGGGGGCGGGCCCTCAGCTCAGTTTAGGAAGGAGCAGATTACTGAGT  
 GGTGTCTTTAACTGGTAATTACATGAAGAAGAAGAGGTTGGGCCACCACAGGCAGAGGAAG

Table 4

GACCACAGGCAGGGCACAGGAGTATGCATTTGTAGGCTGTATATGGGGAAGTAAAGCAGAT  
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 GAACCTATACTGTCTTCTGTAAATTTCTTCTACTACCCTATGACCCGTGAGCCAACCACTTTC  
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 GCCCGGGCGGCCCGCCCCGGGCGGCCGCTCN

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Table 4

GGGCCCTCATCGCATCACCTGCATCTATGATCCACTGGGCACTATCAGTGAGGAGGACTTG  
CCCCACTTGCTCTTCCCCAAGAGACCAAGAAGTCACTCCATGATCCATTACAACCCAGAGA  
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GAGTGTGTAGAAGTGGAATACGTATGCCTCCTTTCCCAAATGTCAGTGCCTTAGGTATCTT  
CCAAGAGCTTAGATGAGAGCATATCATCAGGAAAGTTTCAACAATGTCCATTACTCCCCAA  
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NNNAGGGACCCAAATTTTCATGAAGGCAGATTTCTCCCTCAGAAAACCAGGGCAACATT  
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CCTCCGCCTCCCGGTTCAAGCAGTCTCCTGTCTGAGCCTCCAGAGGAGTAGCTGGGATTA  
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GTGCTGAGATTAGAGGCATGAGCCACCATACTGGCTCTTTTGTCTCATCCATCCCTTAATTT  
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ACTTGACTGCTAACAACTTTCAAATTTCTTCTACTTACTCCCTCTTCTTCAGCTTCACAT  
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GTGTGTGTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGGGTGGGGGTN

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Table 4

CCCAAACTTTATAAAGAATACTTTAGGATGGAGCTGATGCATGCTGAAAACTGAGGAAGG  
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CCCGTCTCGGCACAGGTGCCACATCACGAGACGCTATGGCTAAACCACAGTATAGACGGGC  
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CNNN

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Table 4

AAGTGGACATTTTACTGGGCTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCCTGGGGGAA  
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CGCGGTGGCGGCCGAGGTACACCCAGCTTTGTCTCCTGGCCCCAAATCTCCTTTTC  
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CCTCATCTCTTCTGTTCTGAGCTCTCTGATCCACCGCACTTGGGGCAGGGGGTGCATTCT  
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ANNNNN

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NNGTGCCATTGTGACCCGAGAATTTAATATACTTGTGCCCCGCGCGTGTGTTTGTGA  
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GCAGCATCTAGGAATTCTGGCACTTGGGTTCTAGGGGGTTACAGGTATGCATCATGGATTCT  
TCTCCCTCGTATTTAAAAAGGCCTCGTGTTTCTATTCTGAGTTCATACCAACACCTGCTAGC  
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GAGAAAGAACTTACAAAAGCACAAACCAAGGCAGCCTGAACGGGGAGCCCTGTGCAG  
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CAGATCTGAGCCACAGTCAGGTACCAATGTACACGACATAGGCACATGTGCAACACAAAGA  
AGGTGGGCTGCTGCTTCTTCTCTCTGCCCCTAGTCCAGGCTCCTTTGCTTCACGTAAGATT



Table 4

AACACTTTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCCAGGAAGAAACAATTCCTCA  
CTGCCTATAAACTGTAGTCTCATGTGGGATAGTCAATTGAACATGAGAATCAGAACAATCTG  
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GCCAGGCCTTTTGGCATCTGGGTGCCTTCTGTGTCTTCTTCCACCTCTTCTTCAGTCTCAA  
CATCCACTTGTACCCCCAGCTACCTCCCATGTTTCCAGGTATCATTGGCTCTTAACCTCCACA  
AGCCTGCCTTTTGGCTACCCATCCCAACAATATCAAGAGGGAATGACTAAGTATCAGCTAGA  
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AAAATACAAGTCTATGCCCATAGAACN

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CCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCCCACGCCAGCCCACT  
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CACTGTTAAGAAATTATTCTGGAGAATAAAGGATCTGAAGGTGGCATCAAGAGATCACCCA  
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CATCTATTTTAACTGTTATTACCTGAGCTACACAAACATTCTCTGCACAAGGAGTATTCCA  
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&gt;358

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GCTCTTAAAATAAGAAAGCTGAGACTGAGGAGGTGAAACTGAAAATAAAAACAGAAAGTTCA  
TCCTCTAATCCCCAGTGCTGTATTTCTTCAAGGTGCATCAGGCCTAGGACAGTGGTTAAGTG  
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CTTCTTACAAAGCAAGAGGTTTAGGGAGCTTCTTGGCCAGAAACAAAGTTTATGCTCTATGT  
GATCAGCTACATCTCCTTAGGTTCCATACTTATCAGGGGCTTTTGACATGGAAGAATGTGATA  
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GCCCTCTGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCACCAAGGGCACCAGTCAAGTCA  
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GGGTCCCAGCCAGGTGTGATTTGTGTTGTTGATTAGTAAACCACACATTGTTTTTCCCCACCTTT  
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GCCATTAGTGGAGTCTGATGGGCCGGGCTCAATATTATTCATGGAAGAGAGACATCTTGGT  
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CAGTTCTCAGCACCTTTCTACAAATCTTTATTCTCTACCATTCCTGGAGTAATAAATCCAGTTG  
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GGCGGCCGCCAN

[illegible]

Table 4

AATCTTTTGATTCCAAGTTTTATGTTGCACACAATCAATTCTATGAGCAGGTTTTAGTGCCAAA  
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TCTTCTTTTTGCTTTTTTTGTCAAGGTCTATAATTAGAATACAACATAATGGAAACATCTATAAA  
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GTCTCACATTGAGTTGGGCCATTGGTTATTTGACCTAAAACCTAATCACGGCTACCATAGC  
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NNNNNNNNNNNNNNNNNN

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TACTGATTGTTTCTCATTACGAGATACAGGTTACATTTTTTTCCCAAGACTGCTACATGTG  
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GATATTAGGACTGATCAGGTGTTGTCTGCCTGATCCAATCATTATCAAGTTCATAATTCAAT  
ATTAAGCTCTGAAATTCAGGACACATACATTTATAGAGTGTGAGGCTGTGCATACGTACATTC  
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Table 4

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GGAAACTAACAATTAATCAATTAGAAAAAGCAACATAAAATTAATGATATTTAGGAAATCAG  
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GNN

&gt;363

TTGGAGCTCCACGCGGTGGCGGCCGAACGTTGGCTTATCATAATATTGCTGACAGC  
AATAAACTGCCACATCTTCAGCCTGCAGGCTGCTGGTGGTGAGAGTGAAATCTGTCCCAGA  
CCCGCTGCCACTGAATCGGTCAGGGACCCCGGATTCCCGGGTAGACGCCAGTAAATGAG  
CAGTTTAGGAGGCTGGCCCGGTTTGTGCTGGTACGCGGGAGAATGGCTCGCAAGCTGACT  
GTGAGCTCGGAAATCCTTTTAAAGAAATTCAAATGTCACCTTTTTATTTGGTTTTAAGTACCTC  
GGCCGCCACCGCGGTGAGCNNN

&gt;364

&gt;365

NNGAGAGCGACGCGACATGTGGAGGGTTCGAGAGGTTCAAGATGTTGGATGTGGCG  
CCCCCCCCGATTGCTGTTGAAGCATTGCCGGCGGGGGCACGGATTCCCGCTGTGGAAGG  
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GTGCTACTGCACTCCAGCCTGGGTGACAGAGTAAGACTCCATCTCAAAAAAAGAAAAA  
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&gt;366

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TCAACTGAGAGAAAGAAGCCTTTGCACCAAGTTGGTGTGGAAGTTCTGGATATGCACCTGGA  
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&gt;367

gTCATCAATAATATCCTTGTGTCTCAAATCTCCATGGTGAATGTCTTTTGAACCTGAA  
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GGCTGCATCGATCTCCTCCACCTTCTGAGTGATGGTGTGCTCACTAATCGGTAGCGCTCAT  
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### Table 4

[illegible]

NNNNCGCTCTTGTTGCCCAGGCTGGAGTGCAATGGCATGATCTTGGCTCACCACAA  
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AGGCTCAAGACCAGCCAGATTTTAGGTAGGGTTTTTGTGCAAAAGTAGAAGCCTACTGTCT  
CTAGAAAAAGAAACGCAGTACTTAGGGATCAAATGGGGTGGCAGTGGGGAGGAGGAATAGTC  
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ACAAGACACAAATATGCTCTTATAGGCTGGGGAAATAAGAAAATATGAATGAAGCAACCCAG  
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Table 4

TGGAAGGGCTAAGTTGGGGGGTTTCCAAAGAGCTTTATAGTCTCATGAATCTTCATGCAGTA  
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GGAAATAATCTAATGACATTATACCACATAAAAAATATTTGCCTGCTCCTCTTCCAGTAGAAT  
AGTGAGATCCAACCACCTTGGGAGACTCTTCTCCACCCCACTCCATTACATAGAGTGTAA  
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ACGCGGGGGTTTCCGGTTTGGGTGTGGCCGCATGGCGTGCTGGGGTGCAGGTGG  
CCGAAGGGGGCGTTACTGTTGCGACTGGCATCCGCATCCGGCAGATGTAGATGGAACCAA  
GTCCAGAAGTTACGCGTCACCTTGTCTACAGCCAAACATGCAGGACTCTAGTAACCCGC  
GAAATGATGGGATAGCGTTGCAAATCCTTAAAGAGTCTTAACGGAGAAGGAAAAATGTTAC  
ATTGTCAAAGTCCCAAAGCCTTTCAGCCTGAAGCCAGGAACAATTGTTCAAAGTTTCTTTGGA  
ACATCAAGGAAGGAAATCCAGATTTTACTTTAAGTGCAATGGGGAGTCATTAAGGATTTTGTG  
TAGATACAGCAAAAAGACAACAATCTTCAAGCCACAATGGCCCTCACCAGAACCCAGCCATG  
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&gt;370

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GGCCGCCACCGCGGTGAGCINN

&gt;371

ACGATTATTTTCAAACAAGCCTACGTCCCTGACTAACCGAGTGGAAGGTGTGAGTGG  
CACTACAAATTCACAAAAGAACTGTAGCCTCAGATAATCAAAGGAGAGAAGGTGAGATGCAA  
TCACTGATGCATGCTAGTAATCTCAAACCTTCGTTTTTCAGAAACGATTGGATTTTCAGATG  
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TTCTAGCTATATTTAATATCTGTTCTCCCCACACACTTGCTAATCTACATTTTACAATCTTCT  
CCACTTCACTTTGTCTGCAAAGAAATCTACCTGGACAGAATAGCATCTCTTTTTTTCCCTCTG  
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CATTCTCTATCATTAGCTCTCAGGCTGCCCTTCTGCACTTTACCTTCCCCCACACCTTCTTA  
CAGGAAAGCAGAATAGAAAGGCATCAGTGAGGGATGAACAGGAGAGTGCCTTGAGAGAAGA  
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AGTGCTCATTGCTGTGGAGGCTCTGGTCTGTCTAGCCACACAGACCAGTGAAGTGAGGGGT  
ACATAGGNN

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ACGCGGGGGAAGAAGAGGAAGAAGAAGCAGAAGGAATGGAAGCCTGGAGAA  
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TCGACGAGAGATCCCGAGTACATCTACAGTCAGCCTTACGTCTGCAGGTGTACCCAACAGC  
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GCGGAGCCATCAGCTCCTATGATCACAATGCCTTCTTCTGGATACCTCCTGAAGGACCTGCC  
TGAGGCTATTTTACAATTAATTTTGTGTTTAATAAGTATAAGGAGTACGCGGGGAGCACCATG  
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Table 4

CCTGCTCGGCCCCAGATTGGTCCTTGCCATCTCCTTCCATCTGCCATTAACTCTCGCAAGT  
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 CGGCGCCCTCAAGCAGTTCTTGCCGCCAGGAACACCGGGGCTGCGGCCTCTGCCGCCGA  
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Table 4

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Table 4

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NNNNN

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CCTCTTGTGTTGGTTTTTGTGGTATAACCTTGGACAGATTCTTGTCCACCAAGCTCTCCAGTG  
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Table 4

TAGGTGTATCTCCATGCATGATTACAGCTGGGTTTCTCTACGTGTTCTTGATGATCTGCAACA  
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GTTGCTTGACGTACCTCGGCCGCCACCGCGGGGAGCGCGAATCAGTGGTGCTGCCCCCCC  
CATTGCGCAGGGAACACCGATGGCCCATGCTTCTGGCCGTCCTTTACACACAGGAAACAG  
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NNNNNCCGGCACGGGGGGGAGGCACAGTGAGTCCACTGGGGCACGGCAGCGTCT  
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GCATGGTGGTGTGTGCCTGTAATCCCAGCCACCTGGGAGGCTGAGGCAGGAGAAT  
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Table 4

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CAACGCTGGGGTTTTGCTCATGGATCTGAGCTCTCAGCTCTGGTTCCAGGTTGCTTATGTGT  
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Table 4

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GAAAAAGTGCCGGGCTCTGCCAGGAAAGTACTTTGGTCCCAGCGAGGTTCCCTGGATGTTG  
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CCTCTCTGCCTCCGCTGTGCGCCGCCGGGCCCTCCAGCCATCACGCGGGACGTACGCGT  
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CGCTCTGCCCCGTGACGTCCCTCCACGGAGGCCTCAAGGGTGCCAGGGAGGGGTGGCAA  
TTCCAGGAGCCCCGGTAGCTGGCTCGGCTCAGAGAAGAGGTGGTTCGAGCCGGAGGGGAA  
CAAGCCAGACCCAAGCCCTAAATTTGCGGAATGAGCTAGGGCGTCAGAACCAGAATCGGG  
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NINGTCGCCATTGTGACCCGAGAATTTAATACTTGTGCCCCGCGCGTGTTTTGTTA  
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Table 4

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Table 4

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GGTAGTTGAATTTTTGAAAGTCATGATCAGCCACACAACCTGTTTTGTACATACTTATTTTCTCA  
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CCACAGAGCCAGCAATCAGGGACCACATTCCCCGAGGTACAAAATTTAGAGGTTTCCCCTTT  
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TAAGTTCTAGCCCTATGAGGACAACACCTACTTTGATACCAGGCGTCACACTCTACAGCTNT  
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Table 4

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NNNNNNNNNNNGCCGAGGTACGCGGGGAGAGAGGAAAAGAACACAGATCTCGCA  
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CCAGCAATAGCAATGAGTTACTTCTTAATCTTAATAATGGTCAACTTTTGCCACTACAACCTTCA  
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CGGCCGCTCCACCGCGGTGAGC

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AGGAAGTCAGGAACTAGACCTGCCAGTGCTGTTCCCAAACAGACTTGGTAAGACTCCCTTG  
GCTCTGATGGTCAAAGGATGGCAAAGTCCACTTTAGAGGCCATTAGCCTAGCAGTTGAGTAG

Table 4

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CCACAAANNNNNNNNNNNNNN

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Table 4

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Table 4

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Table 4

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NNN

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Table 4

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Table 4

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NNNNNNNNNNNNNNCGANAAATCTTCTAGAATTAATTGAACGGGGGGGACCCATTCC  
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AAAAGGCCATTGCTAGTTCCTGAAATCCTGGAATGAGACCCTCACCTCCAGGTTGGCTGCT  
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GCTTGGTGGATGACTTTGAGAAGAAGTTAATGCGCTGAAGGTTCCCGTGCCAGAGGATAAA  
TATACTGCCAGGTGGATGCCGAAGAAAAAGAAGATGTGAAATCTTGCTGAGTGGGTGT  
CTCTCTCAAAGGCCAGGATTGTAGAATATGAGAAAGAGATGGAGAAGATGAAGAAGTTAATT  
CCATTTGATCAGATGACCATTGAGGACTTGAATGAAGCTTTCCAGAAACCAAAATTAGACAA

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### Table 4

>419  
NNNNNNNNNNNCCGAGGTACAGTATATTGACCTTAAAAATCAGTAAAGCAGTCATGG  
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AGCACAGCTTTCAACAAAACTTTGCATACCCCGCGTNNNNNNNNNNNNNNNNNNNNNNNNNG  
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>420  
>421  
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CACGGTCAAGAGAGCGCAACTGCAGCCTGGAGCTACCTCCGGCCAGCGGTCCGGCCAAGGA  
CGCTGAGGAGCCTAGTAATAAACGGGTCAAACCCCTTTCCCGAGTCACGTCGCTAGCAAAC  
CTCATCCCGCCCGTGAAGGCCACGCCATTAAAGCGCTTCAGTCAAACCTGACAGCGCTCCA  
TTAGCTTCCGCAGTGAGAGCCGCCCTGACATCCTCGCCCCCCGACCCTGGTCCAGAAATGC  
CGCCCCCTCGAGCACGAAACGGAGAGATAGCAAAGCTGTGGAGTGAGACCTTCGATGTGTG  
CGTCAATCAGATGCTTTACATCCAAGGAATCAAACGTCAGGAGGCGATCTTTGAGCTTTCCC  
AAGGAGAAGCAAGACTTGATAGAAGACTTGAAATTAGCAAAAAAGCCCTATCATGACCCCATG  
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422

NNNNNNNGCANCNNTTNGAAGTGTCCCTCCTACTTCTTGCTGCCTCACGGTTGCT  
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GGCAGAGGCCGCTGCCCGGACTGCGGCTCCACGGAGCTGGTGAAGACTCGCACTATTCTG  
CAGAGCCAGCTGGTGTGCTCCGACTGCGGCTGCGTGGTCACCGAGGGGGTCTTACCCT  
ACCTTCAGCGACGAGGGCAATCTCCGAGAGGTAACATATCCGAAGCACAGGGGAAAAACG  
AACAAGTTAGTCGAGCCGACCAACGAGAGTCTCCGGCAGAGTGAGAGACCTTTGTCGAGTTCT  
CGAGTTGCCACCAACATTTGAGGATACCGCGGTTGCCTACTACCAACAGGCATATCGGCAC



Table 4

TCTGGCATCCGAGCGGGCCAGGCTGCAAAAGAAGGAGGTGTTGGTTGGGTGCTGCGTCTTAA  
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 CATCTCTGTGCTTGGCAGAACTGGTGAAGACCTATTGCAGCAGCTTCAAACCTGTTCCAAGCT  
 TCACCTTCTGTGCCAGCCAAATACGTGGAAGACAAAGAGAAGATGCTGTCTCGAACAAATGCA  
 GTTGGTGGAGCTGGCAAATGAGACGTGGCTGGTGACCGGGAGGCATCCCTTGCCCGTCAT  
 CACTGCTGCGACTTTCTGGCTTGGCAGTCGCTGCAGCCTGCAGATCGGCTTTTATGTTCC  
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 GACTTGACAAACGGTCTGTGGTGAAGCACATCGGTGACCTTCTCCAGCACCGCCAGTCACT  
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 TAGGTATTGCTTTTTCTGTTTGAAGGAACCAAGAGGGGCTCTGCCATTAGTTGGACCCTGGG  
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 GAGGAGCGGGAACCTGGGGAATTCTGGCCCTACGTGCATTACAGGCAATGATGGGTTTGTG  
 TGTATGGTGTGATGAGATCCTCTACCTCATAACAAAAGGACAGTGGGTAGACTAAGGCAGTA  
 GCTCAAAGGGCTTTGCAAAATTTAATATATTAACAAAGAGGCATCTGCTAGAAAACATTCT  
 ATTGTATAAAACCCGAGTACCCTATAAGGTCCCTGGATAATTTTTGTTTGATTATTCATTGAAGA  
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 AANNNNNNNNNNNNNNNNNNNN

&gt;423

&gt;424

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 catCCAGCAGGATGGAGGACTTGGCCACCAGTGCAGGCTTCTTggcctctctccgcGTACTGCCGT  
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 GGTCAATGTCATCATCCTCGTCATCCTCTGCTGGTGTGGCTGGCTTCCAAGCTGGTGCCCG  
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&gt;425

&gt;426

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&gt;427

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 CGTGCTGCCGGCCAACCTCGGGGACATTGAGGCACTGAACCTGGGGAACAACGGCCTGGA

Table 4

GGAGGTACCCGAGGGGCTGGGGTCGGCGCTGGGCAGCCTGCGCGTCCTGGTCCTGCGCA  
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Table 4

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TGACAGTGCTCATATTTGACACTTGTGTATTGACTCTCTTTGAATGAATAAAAGGAAAAAG  
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CAAAGAAATGGTTAAANN

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NNCGCCGCCGACGCGGGGGGAGGCGTCGGCCACGTTTCAGCGGACACGGGAGCAA  
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AGTGAAAGCCTTCAGAGGGAAGCTGCTAAGAAGCAGGCCATGAAACAGACCAAACTGGAAA  
TCCAGAAGGCCCTTGCAAGAAGATGCTACTGTGTATGAATATGACAGTATTTATGATGAAATG  
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GGAGCACAGTGAAGCTCGCAGCTAAAGCAGGCGATTATGCATCACAACAGGAACATACAGT  
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GAATCGACCGCCGGACCTACGCAAGCACAGAGGAGGAGAGAGCAGACACAGAGAGCAAG

Table 4

CGCAGGCAGAGAAGGCGGAGCGGAGCCCAAGAGCGCACAGCAGCCACCAACCGTGCGGA  
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>430

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CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
TGTTCCAGAGCTTTTTCTCTAGAGAAGATTTGAAGGCGGCTTTTGCTGACGGCCACCC  
ACCATCATCTAAAGAAGATAAACTTGCAAATGACATGCAGGTTCTTCAAGGCAGAATAATTG  
CAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAATACCTCTGAGAATAGAGATTGAT  
TATTCAACCAGGATACCTAATTCAAGAACTCCAGAAATCAGGAGACGGAGACATTTTGTGAG  
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CTCCAGACTTTGATGTCAGTGGATGATTCTGTGGAGAGGCTGTATAACATGCTCGTGGAGAC  
GGGGGAGCTGGAGAATACTTACATCATTTACACCGCCGACCATGGTTACCATATTGGGCAGT  
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CCCAGTCCCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACGGCAAGTCTGTCC  
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TGGCGTGATACATTCTAGTGGAAAGAGGCAAATTTCTACGTAAGAAGGAAGATCCAGCAA  
GAATATCCAACAGTCAAATCACTTGCCCAAATATGAACGGGTCAAAGAAGTATGCCAGCAGG  
CCAGGTACCAGACAGCCTGTGAACAACCGGGGCGAGAAGTGGCAATGCATTGAGGATACATC  
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TTGAAGGTGAAATATATGACATAAATCTGGAAGAAGAAGAAGATTGCAAGTGTGCAACCA  
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CTGTCCGAGTGACACACAAGTGTTTTATTCTTCCCAATGACTCTATCCATTGTGAGAGAGAAC  
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ACTTTTCAAGGAGAAACAACCGTAGGAGGAAGAAGGAGAGGAAGGAGAAGAGACGGCAGAG  
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ATAAGCAGGCTATTTGAATCAGCTACACGTACAATAATGGAGCTCAGAAGCTGTCAAGGAT  
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GACCTACACAGAGGACAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCA  
GACATCAACTGGCAAGGCCTAGAGGAGCTACACAGTGTGAATGAAAACATCTATGAGTACAG  
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Table 4

TGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAATAAGACTCAAACCTGCTCAAAGTG  
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CGCCTCCTCTTCACTCTCCTCTGATTAGATGAACTGTTACCTTACCCTAAACACAGTATTTCT  
TTTTTAACTTTTTTTATTTGTAACCTAATAAAGGTAATCACAGCCACCAACATTCCAAGCTACCC  
TGGGTACCTTTGTGCAGTAGAAGCTAGTGAGCATGTGAGCAAGCGGTGTGCACACGGAGAC  
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AGGGACATAAGTATATACATGTTATCCAATCAAGATGGCTATAATGGGCTTTCTCAGAGATAA  
AACTTGACCCCCGTGTCAAATTGACATCACACTCTGCATGTCTGCGTAATGAAGGTACGATG  
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CGGGCAGGTACGCGGGATTTACCGGGCAGTCAAAGATCTATTCCTACATGAGCCCC  
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CAAATGCCAGGGGAAACCATTAGCCGGAATCTACAGGAAACGAGAAGAGAAAAGAAATGCT  
GGGAACGCAGTAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAG  
AGTCCCGGGAAGCAGTGGTACCTCGGCC

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CGCGCCGCCCGGGCAGGTACAAATCTACCTCCCCACCAATGTCCTTAGAGGGCC  
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GTCTTGAATTCCTGGGCTCTAGTGATTTCCTCTGCCTTGGCCTCCCAAAGTGCTGGGATTACA  
GGCATGAGCCACCACACCCACCTGTCTATTTTACAATTTTCTTTGAGCTCTTTTTTCCAGC  
AGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAACTGCTGACTCCCTTTATCTTTTC  
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&gt;434

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TTAAGTGCTTTGAGATCTCTAGTATCAAAGATGTATTTACAAATATGATGAAATAATAGTGACA  
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NNNNAGGTGACACTATAGAAGAGCTATGACGTGCGATGCACGCGTACGTAAGCTTG  
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Table 4

GCCCCGGAGCGGCTAGAGCTCTGTGATGAGCGTGTATCCTCTCGATCACATACAGAAGAGG  
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NNGAGTCGACCCACGCGTCTGTTTTTTTTTTTGTGATAAGAATTCTTTTATGTTATT  
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GCTTATAAACTCCTGAGCTCACCCAAAGTTGTATATATATGTGTATCTGACCCTAAACAGTGC  
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GGTGGCATATACCGAGCAAAGATTCAAATAGCATCACAAAGGCTTTGAAACAGAATTGATATT  
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gGAGTCGACCCACGCGTCCGGTGGCTTCTGCGGCGTTCCACTCTCGCTCTCCTG



Table 4

GCGTTGCCTGATCGCCGCCCATCATGGGTGCGATGCATGCTCCCGGGTGAGCTCGGGGCA  
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 AGGCAATAAAATTTAAGAATTCTTAAGTCTAAGGGACTTGCTCCTGATCTTCTGAAGATCT  
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Table 4

ATTTTCTCCTAAACTGGACCATAATTTTCAAGTAAACCTTCAGACATAGACTGAAGCAGCTC  
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TGCGCGCCGCTCTAGAACTAGTGGATCCCCCGGNGCAGGAATTCGCGGCCGCGTCACT  
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CTCTGATCCTTGCACCCTGGCAGGAAGCTGGTAGCTCACACTTTAACGGGAGGCCTTCACA  
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AAGGTGCTGGGGATACATCAGAGGTGATGGATACTCAGGCGGGCTCCGTGGATGAAGAGA  
ATGGCCGACAGTTGGGTGAGGTAGAGCTGCAATGTGGGATTTGTACAAAATGGTTCACGGC  
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Table 4

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ACCAGACAGAGAACTGGGAAATGACTTGGGCAATAACTGTTTAAACATGAGTACGAAGAGAN  
>455

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>456

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TGTTTCTCTAAAATTTAGAACTCTTAACTAAATCCTTTATTTCAAAAACAAACATAAAATAATTT  
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GCCGAGTGTGAAGTGACACCCCCAGCAGATGGGGTTTATCATCTTACTTAGTCACACAACA  
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CTTCTTGAGGTTATTTCTGTATTCTTCACTTCTTTCAGTTCTTCTTCTCTCGTTGCTTTTCTA  
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Table 4

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TACAGCAGGAACGAAAAACATCCGACCCAACATTATTCTTGCTTACCGATGATCAAGAT  
GTGGAGCTGGGGTCCCTGCAAGTCATGAACAAAACGAGAAAGATTATGGAACATGGGGGGG  
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ACCGGGAAGTATGTGCACAATCACAATGTCTACACCAACAACGAGAACTGCTCTTCCCCCTC  
GTGGCAGGCCATGCATGAGCCTCGGACTTTTGCTGTATATCTTAACAACACTGGCTACAGAA  
CAGCCTTTTTTGGAAAAATACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGA  
GAATGGCTTGGATTAATCAAGAATTCTCGCTTCTATAATTACACTGTTTGTGCAATGGCATC  
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Table 4

TAGTTACTAATTTTAAATTTAAAAATACAATTAAGTCTAGCTGATAAAAGTCACAGACAGA  
AATAAGCTAAGTTCTCTCTTCTCTTCTAGGGAACGCTGGTGGCAATTCACCATATAAACTGGATG  
GAAGAANNNNNNNN

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NCGATTCTGTGTTTCTGCTGAAGTGTAGCTTGGTCTTTACACTTGTTTATGGTTATCT  
GTTGTGGTGAGACCCTGCCCTTCCGTAAAAGTGTAAAGACTTCCGCGAATTGGTCACCGAGA  
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GAATGAGCTGAAAGGGACTTCCAAGGAAGATGCCATGAAAGCTTACATCAACAAAGTAGAAG  
AGCTAAAGAAAAAATACGGGATATGAGAGACTGGATTTGGTTACTGTGCCATGTGTTTATCCT  
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CAAAAGAGGAAAGAAAGAGGACGAAAAGAAGAGAGGAAAGCACAACGAGGCAAGAAAAAGA  
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GAGGATGAGAA

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GGTACTTCATACTGCTTGTGCCCTGGACATTAACACCACTGCGCAGCCATCACCCCTGGCC  
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CGAGTGCAAAAGCGCCTCAATGACCGGATTGAGATGTGGAGTTACGCAGCAAAGGTGGCC  
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### Table 4

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NAGTGC GGAGCGCCGAGGCTCGCGTTC CGCCGCTGCTTCGTCGCCGGGGCGGG  
CGCCGCGGTGTCCCTGCCGAGCGTGAGCCCCGAAGTGTACCGCGCCGAGCCCCAGCCTC  
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GCCGTGCGCGTTCCGCGCTGTGGCCTGTAGCTACCTCGCTCGCTGCTTTGTCTCCGCTG  
TCTTGCCGTCTCTCCCGCGCCTTCTCGGGCGGGGCTGTGCGTGTGCGTTTGTCTGCTCC  
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Table 4

CTCCCAAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGAACCAGACATAAGTTCAGA  
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 AACCAAAAAGGATGAGAAAGATCAGTCTAAAGAAAAGGAGAAGAAAGTGAAAAAACAATTC  
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Table 4

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GGTGGGATCTCCTGATCCCCGCT

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ACCGCGGTGGCGGACGAGGTACAAAATAATTATAATGTATTAACCTCATACTGCCTGT  
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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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AGCTGTGCGTGCAATTCGCTCCCTATCTAGGGTACTACTCATTTCCCGAATTCGAACCTT  
CTCAGATTCAAGAAGTACCTGAAGCTCTAAGTTTCGACCTTGTTCTTCTGACAACTGGGCATC  
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AAAAGTAGATTTAGCTGAAGATTCCTTTGTTTCTGACTCTCAAGTGAAAACCTCAGATCCTCA  
AGTTCTTCTTTATCCCGTTCTTCACTGCGTCCCAACTTGGCTTTCTCTTTCTNCCAAAGCCCA  
CTGGAGCCTCTCTTGTTTTTCGGACNN

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CCGGGCAGGTACGCGGGGGTGGCGGCGTTGGGTTGAGCGGGCTTTTTGGAAGTTT  
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AAACAGCAGACAACTGCAAGAATTTCTTGGCAGGGCCTGGGAATGCTTTTTTATCTCAT  
ATTAGTGCCTGTGATGGCATCTTTCATCTAACACGTGCTTTTGAAGATGATGATATCACGCAC  
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CATTCTTTTAGTGGGGCCTTGGAACTCAAGTTGCAAGAATTGAGTGCTGAGGAGAGACAGA  
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GCACTCCAAGTAGAATACTTTTTCACTGCAGGCCAGATGAAGTGCCTGCATGGACCATCAG  
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AATTTCAAAAGGCATCTGATTTTTACACATAATTTCTGAAACCAATGCGACAAATAGTCGG  
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TAAATGGGTTTATAATGTGACCGGTTGGTTCCGTTTAAACCCTCCATTGGAGTTTCGGACCTT  
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TGAAAAGGGGANNNN

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Table 4

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Table 4

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AGGTCTGGCAGAGGTGTCTAAGGTTGCAGAGCAAGTACTGAATGCCGTAAATAAGGGGCTC  
TACAGAGAGGCCACAGAGCTGTGGGGGAAAGCAGAAATGATCATTGAACAGAACACAGATG  
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Table 4

GATGATAATAGATATTATTTTTCTTATGACAGAAGCAAATGATGTGATTTATAGAAAACTGG  
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Table 4

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AGAGAAATTCAGTGAACATTATCACTCCTTGTGTAAAGCAGTGCATCACCTAGCAACTGTTGA  
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AAGAAAGAAAAATTGTAATAAAAAATGGAAGGCACCCTGTGATTGATGTGTTGCTGGGAGAA  
CAGGATCAATATGTCCCAAATAATACAGATTTATCAGAGGACTCAGAGAGAGTAATGATAATT  
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GGCTCAGATTGGCTCCTATGTTCTGCAGAAGAAGCGACAATTGGGATTGTGGATGGCATT

Table 4

TCACAAGGATGGGTGCTGCAGACAATATATATAAAGGACGGAGTACATTTATGGAAGAACTG  
ACTGACACAGCAGAAATAATCAGAAAAGCAACATCACAGTCCTTGGTTATCTTGGATGAAC  
GGAAGAGGGACGAGCACTCATGATGGAATTGCCATTGCCTATGCTACACTTGAGTATTT  
CAGAGATGTGAAATCCTTAACCCCTGTTTGTACCCATTATCCGCCAGTTTGTGAAGTAA  
AAATTACTCACACCAGGTGGGGAATTACCACATGGGATTCTTGGTCAGTGAGGATGAAAGCA  
AACTGGATCCAGGCACAGCAGAACAAGTCCCTGATTTTGTACCTTCCTTACCAAATAACTA  
GAGGAATTGCAGCAAGGAGTTATGGATTAATGTGGCTAACTAGCAGATGTTCTGGAGAA  
ATTTTGAAGAAAGCAGCTCACAAGTCAAAAGAGCTGGAAGGATTAATAAATACGAAAAGAAA  
GAGACTCAAGTATTTTGCAGGTTATGGACGATGCATAATGCACAAGACCTGCAGAAGTGA  
CAGAGGAGTTCAACATGGAAGAAACACAGACTTCTCTTCTTCAATTAATGAAGACTACATTT  
GTGAACAAAAAATGGAGAATTAATAATACCAACTGTACAAAATAACTCTCCAGTAACAGCCTA  
TCTTTGTGTGACATGTGAGCATAAAATTATGACCATGGTATATTCCTATTGGAAACAGAGAGG  
TTTTCTGAAGACAGTCTTTTTCAAGTTTCTGTCTTCTTAACCTTTTCTACGTATAAACACTCTT  
GAATAGACTTCCACTTTGTAATTAGAAAATTTTATGGACAGTAAGTCCAGTAAAGCCTTAAGT  
GGCAGAATATAAATCCCAAGCTTTTGGAGGGTGATATAAAAATTTACTTGATATTTTATTTGT  
TTCAGTTCAGATAATTGGCAACTGGGTGAATCTGGCAGGAATCTATCCATTGAAGTAAATAA  
TTTTATTATGCAACCAGTTTATCCACCAAGAACATAAGAATTTTTTATAAGTAGAAAGATTGG  
CCAGGCATGGTGGCTCATGCCTGTAATCCAGCACTTTGGGAGGCCAAGGTAGGCAGATCA  
CCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGCAAACCCCATCTTACTAAAAA  
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ACGCGGGGGTCTGCCGCGGTGGCCGGGTGCCGATTTGACAAGATCAAAGCTGCAG  
GAAAATGGACAGTGAGGTTGAGAGATGGAAGGATCTTGGATTTGATTGATGATGCTTGGC  
GAGAAGACAAGCTGCCTTATGAGGATGTGCAATACCACTGAATGAGCTTCCTGAACCTGAA  
CAAGACAATGGTGGCACCACAGAATCTGTCAAAGAACAAGAAATGAAGTGGACAGACTTAGC  
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TTTTCGCAAGAACAAGACTCTCGGCTATGGAGTCCCATGTTGATGGATCCTGAGCTTGAAA  
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AAGAAATCCAGAAAGCCTTAAGACTAAGACAACCTGACTCTGCTGATTCTTTTCTTTT  
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CGTATATTTTACACCTCGAAATAAAAAATGTGAATACTGGCCAGACAAAAAACAAAAAACCC  
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NN  
NN  
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GGGGNNNN

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NNNNNNNNNNNGCTATGTTGCCCAAGCTTGTCTCAAACCTCCTGGTCTCAAGCAATCCT  
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TATGACTCATAGCACTTACAGGCTACTTCGGCAGGGACTTNGGGTACCCCTGTTCTTGGATG  
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Table 4

TTAGCTATTTTAGACTTGGGGTCAAAGAAGAGAAGCCTCTTGCCCAACTCAGCAACACCAGA  
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CCTTGGAACTGGTTCCTCATATTCATTCCAGTCTGGATATTTGATACTATCCTTCTTGTCCTG  
CTGATTGTGAAAATGGCTGGGCGGTGTAAGTCTGGCTTTGACCCTCGACATGGATCACACAA  
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CTGTGCTAAACTGGAACAGTTTACTACCATGAATCTATCCTATGTCTTCTTCTTATGGGC  
CTTGCTGGCTGGGGCTTTAACAGAAGCTCGGATATAATGTCTTTTTTGTGAGAGACTGACTTCT  
AAGTACATCATCTCCTTTCTATTGCTGTTCAACAAGTTACCATTAAAGTGTCTGAATCTGTCA  
AGCTTCAAGAATACCAGAGAAGTGAAGGAAAATACCAATGTAGTTTTATACTACTTCCATAA  
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ACAAAAGGGGGGGCGCAGAAATCAACAGGCGCACACTTCACCACACTTTTGAAAGGCCACA  
GGAGACTTAAACGGGCACCAAACTGTTGGACACAN

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ACTGAGGCTCGAAATACACCTGGCCTCGAAAGACCCCTGTGTCCCAAAGGAGATTT  
GAGCGGCCCTCTTTATTTTCACTTCATAGCACAGCCAAGTGTAGCTCCGACCATAGAGGAT  
GGGTTTCGTTTTCAAAGTTGTCGTAGAATGTGTCTCGATACATCCGCTCCATCGGATTTCTGAT  
CTGTGGATTCTGTTTCAAGCTCTTAGATACGCTTGTCCCTGTCCCGCTCTTTTTTGAAGCTC  
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AAAAAGACGTGTGATTTCTTCCAGACTTTAAGAATACTGTCAGAAGTTCTATCAGGCAGAG  
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TGGCAGAGAAGACTGAAGGTAAGATTTTCGGAGGT

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TGCATCGGACTCTGGCGCAAGAGCTGGAAGCTGTGAATTAACCGTCCCTCTTACTGCAGTT  
GTACCTCGGCCGCGACACGTCGAGCGGCCGCCCGGGCAGGTANNNNNNNNNNNNNNNNN  
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CTCTGGTTCTTTGACCACTTTCTTCTTTCTTCTCTCTGGGAGCCCAAGGTCTACTTTGTGT  
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NNGGGATTGAGCATCACTTCCAGAGATGTAACAATAGGTGGCTCAGCTCCGATCTAT  
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CCACTTAATGATTGAGGATCTGCAGGCCTTGGTGTGAGTGTCAAAGGTAACCGGTCAAAGA  
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GACAAACCAAGATGCCATGGAACCCCTAAGAAGGTCTATGTCTACTGAAGGCAATAACGAG  
GAATGATCCAGCTTATTGTTGCAAGGAGAATAAGCAAGTGCAATGAGCTGAAGTCACCTGGG  
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Table 4

CCCATTCCCTCTACAGTGGGATTGAGGGGCTTGATGAATCGCCCAGCAGAAATGCTGCCCT  
CAGTAGGATAATGGGTAAATACCAGCTGTCCCCTACAGTGAATATGCCCCAAGATGACACTG  
TCATTATAGAAGATGACAGGTTGCCAGTGCTTCCTCCACATCTCTCTGACCAGTCCTCTTCCA  
GCTCCCATGATGATGTGGGGTTTGTGACGGCAGATGCTGGTACTTGGGGCCAAGGCTGCAAT  
CAGTGATTGACCCGACTGCTCTTTGAGTCCAGATGTTGATCCAGTTCTTGCTTTTCAACGAG  
AAGGATTTGGACGTGACAGTATGTGAGAAAAACGCACAAAGCAATTTTCAGATGCCAGTCAA  
TTGGATTTCTGTTAAACACGAAAAATCAAAAAGCATGGATTTAGGTATAGCTGACGAGACTAAA  
CTCAATACAGTGGATGACCAGAAAGCAGGTTCTCCAGCAGAGATGTGGGTCTTCCCTGG  
GTCTGAAGAAGTCAAGCTCGTTGGAGAGTCTGCAGACCGCAGTTGCCGAGGTGACTTTGAA  
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AAAAAGGGCGGCCGCN

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CGAAGGGGGATGTGCTGCAAGGCGATTAAGTTGGGTAACGCCAGGGTTTTCCAGTCACG  
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CAATGTGTCTGCAATTCACATTAATTCCTCGCAGCTAGCTGCGTTCCTTCATCGACGCACGAG  
CCGAGTGATCCACCGCTAAGAGTCCCCCTTCTGTGCTCTTCTCGCAGCCGTACCACACGGC  
GGGCGTCCCGAGACNAAGGGNTTCGATGGACAAGAGACCCAAGCATAGANNNNN

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NACGCGGGGAAGTGAGAGGAACCGAGAGTAAGAGAAAGAAAGAAAGTGAGGGGATG  
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TCACCAACAGCGAATGGCTGCCTTAGGGACGGACAAAGAGCTGAGTGATTTACTGGATTTCA  
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CATTTTACTGGCTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCTTGGGGGAATGGAGGAC  
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CCTTGGGTACATGACAATCTCTCTCCACCTTTTGTCAATTCCAGAATACAAAGTAAACAGA  
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CGTGATTCCTCACAGACACAAAGATTTCTCTGCTGAGTAAGCGTGAGGCCCTTAACTTGT  
GAAAGCATCATCCAGACCGTGTGAGTCTGTCTGTGTATGTGCAGAACACAGACCTCCTTTC  
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CAAGCAGAGTCTCCTTGGAGGTGACATGGATATGGGCAACCCAGGAACCTTTCGCCACC  
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TAGTGCCATGGAGGTACAGACAAAGAAAGTTTCGAAAAGTTCTCCAGGTTTGCCATCTTCAG  
TCTATGCTCCATCAGCAAGCACTGCCGACTACAATAGGGAAGTCCGAGGCTATCCTTCTCC  
AAACCAGCAACCAGCACTTTCCTAGCTCCTTCTTCATGCAAGATGGCCATCACAGCAGTGA  
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Table 4

TCTCATATTCACAGTCCAGCAGCTACTGTAGCCTGCATCCACATGAACGTTTGAGCTATCC  
ATCACACTCCTCAGCAGACATCAATTCAGTCTTCCTTCCGATGTCCACTTTCCATCGGAGT  
GGTACAAACCATACAGCACCTCTTCCTGTACGCCCTTCTGGCAACGGGACAGACATATAATG  
GCAAATAGAGGAAGCGGGGCAGCCGGCAGCTCCCAGACTGGAGATGCTCTGGGGAAAGCA  
CTTGCTTCGCAAAGCCGAATTGAAGATCGTTTAGAAAGACTGGATGATGCTATTCATGTTCTC  
CGGAACCATGCAGTGGGCCCCATCCACAGCTATGCCTGGTGGTCATGGGGACATGCATGGAA  
TCATTGGACCTTCTCATAATGGAGCCATGGGTGGTCTGGGCTCAGGGTATGGAACCGGCCT  
TCTTTCAGCCAACAGACATTCACCTCATGGTGGGGACCCATCGTGAAGATGGCGTGGCCCTG  
AGAGGCAGCCATTCTCTTCTGCCAAACAGGTTCCGGTTCACAGCTTCTGTCCAGTCTGC  
GACTTCCCCTGACCTGAACCCACCCAGGACCTTACAGAGGCATGCCACCAGGACTACAG  
GGGCAGAGTGTCTCCTCTGGCAGCTCTGAGATCAAATCCGATNACGAGGGTGTGAGAACC  
TGCAAGACACGAAATCTTCGGAGGACAAGAAATTAGATGACGACAAGNAGGATATCAAATCA  
ATTACTAGGTCAAGNTCTAGCAATAATGACGATGAGGACCCCTCCCCGCTTCCCTGCCTCA  
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TTGGAGCTCCACGCGGTGGCGGCCGAGGTACGCGGGGCTCTTGAGGAGTGAGACT  
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NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
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GCATCCAGAGTTCTTTGATGTCTGGCTGCCTTCTGCGGGCCAACTGTCTTGTTGGAATTCGTT  
GCTCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTCGTTGTATC  
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Table 4

GCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGA  
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TCCAAATAAGAACAAAGGACACACATTGTGTACAGGTACGAAGATCATTAGTTTTCCATATGCT  
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CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCGGTCATGTGTCTTCTGTTTCATATTTCTCTGGAGGATACTCGAGCCCCGCTCGAGC  
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CAACTGGTGGAATCGTAGATATGGCCAGTAGTACCTTCCAAGGCATTACAGAGGGCAGCAGA  
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GTCTTATGACAGACAGGAATCTGAGGGCTCTGACTTACTTGAGAATCATATCAAAAAGTTG  
GAAGGAGAGACTTACCGATACCACTGTGCTATTCTGGAAGCAAGAAGACAATCCTTATGGT  
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GGCAATGTCCATTTGAAGATTTTGTATTTCTCCTAGTGTGAGTGAATGTGCTAAAAATTT  
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GTTTACCTGAAGGACACCGCCACAGCAGAGAGAGCATGTAATGCCATTGAGGATGCACAGT  
CAACGAGACAGCAGCAAAAATTGATGAAGCAGTCATCAGTGAGACTTCTCAGACCCCAATTG  
CCATCTTAATCACAGACCTCAGGGGCTCCAACAGGGAGAAAAACAATCACTGGTCTTGTCT  
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TGTATATGCTAGCAGTCCACTTCTACGCCACCACCCAAATGGGTGAGACCCTTGAAGAAACG  
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Table 4

TATATTTAATTAAAGCCTTACTGAAGAATAAGAAATGAGCTTAGAATGACTAGTGTTCTTTGAA  
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Table 4

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CGCGGCCCGCCGCTGGGGTTAGCCCTGGGGTGTGCTGCTGGCGCTGGTGTGGCGCCGCG  
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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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NNNNNNNNCCGCCCGGCAGGTACGCGGGGATGACGCAAGAGCCCCGCTCTCACTTT  
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CCCAGGTACTAATTTCAAGATGCCAGGACGTTCCAGTTCAAATTCAGGTTCAAATGGTTTCAT  
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NNNCTCGTGGGCAGAGGAACAACCAGGAAGTCTCGGGCTCAGTCTCCACCCACAGT  
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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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 CCTTATGGCAGACCAAAATACTTAGTGCATGGCTGAGTTTCTACAATTCAAGGAGCCAAGA  
 AAATAGTTTCAAGATGGAATATAGTACATGCATATAAGGCAGATGCACACATGCTGGTTACTT  
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 TTTTTGGACCATATTAAACTGCAAGAAGACAGGGGTCTTACTGAAGATCTTTTAGAAACTT  
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TAAATTGATATAAGTAACAATTCAGTGAGATATTTTATCTCTCATTTTATAGATGATAAAATTC  
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Table 4

TTATTCACATTTTAATATTATGTTGCAGCCTTACAAATGTTTTCATCCACTCACTCTGATAAGC  
AATAAAGAATAAAATAAAGATTGCATATGTACAATGCTATTCTTCCTTGGGAAAATGACAGAAT  
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CAATGTAAAAAGTCTAACATACAAAATCAATGCTAAGAGTAACATTTTCTTGGAAATAACATTA  
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TTTTCTAGTTTCATATGCAAAAGCAAAGTAATAGTTGGAGTGTATGTAACCTACATTAATATG  
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TTAAATTTCTTACCCTATACATAAAACAATAACAGACATTCTGTTGACTTTGGCAAATAACA  
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Table 4

TCTTGCAAATTATTCTTTTATATAACTGACCAGTGCTTAATAAAACAAGCAGGTACTTACAAAT  
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Table 4

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GGATCGCGACGACACGTAGAAAGTGCTGTCTCCCTCTCATCACTACAGGATTCTGAACTCCC  
CGGTCAGCTTGGCTCGCAGAAATTCAGCGAGAGGACGCTGTCCCCGGGTCTGCCATCCG  
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AATTGAAATAACATAATTTTTTAAACTTGGATGGAGAGATGAGAAGCAATTCACCAAACCTC  
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Table 4

GAAGCCTGTTGGTTAGTGTATTTATTTTCTTTGTGGGGTCTTCTGTGAGCTACAGGCACAGTA  
AGAATAATTCAGAGCGGTACTGGGAGTTGGTTCAATTTTCATGTCATCACTTTTCAATGAAGGG  
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TCCAGACATCTGGTTGCAAAGACAAATAGGATATATATTTGTACTTCTTCTCTGTGGACATGT  
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GGGAGAAAGCTGAGGAGGCTTTGGAAGAGAAGGTGAGGAGCATTTCAGGATTTGCAGTCCC  
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GACNNNN

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TTTTTCTATATAAAGTGATACTGAAATATGCTAATTAATATATTAATTTTAGTTAAAT  
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NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTGTTATATTTTTTTTTTACAT  
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Table 4

TGTA CTTTGATATTTATAAAACAAAGGTGTTTTTTTTTCA TTTCTGCATCTGAATCAATACAAAT  
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CGTGCCGTAGCTTTTTCCGTAATAACACCCTTCCCTCTGTAAATACCCGTTACCATATTTATC  
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GAACTGCATGAACATAAAAAAAAAAAAAAAAAAGTCGACGCGGCCGCGAATTTAGTAGTA  
GTAGGCGGCCGCTCTAGAGGATCCAAGCTTACGTACGCGTGCATGCGACGTCATAGCTCTT  
CTATAGTGTCACCTAAANNNNN

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NNGCAGACAGTGACTTCGATGCTAAGAGCAGTGCGGATGATGTAATAGAAGAACT  
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Table 4

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CCAACATTTTGGGAGGCCAAGGGCAGAAGGATATTGAGGGCTAGGCATTCAAGACCAGCCT  
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Table 4

GACCTGAGTGCATTTCCCACCATTGTCCTTTCCACATTATGTTGTAGCTGGCTGGCTGTCAG  
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Table 4

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TGA

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ATCAG

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Table 4

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ACGCGGGGAGACACACACAGCCCTCTGCCACCTCTGCTTCCTCTAGGAACACAGG  
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Table 4

GAGGCCTTACAGAGTGCTAGCCTCTTCCTTCAGGACTCACCTGGGGCCTGCTGCTTTTATAT  
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Table 4

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>634  
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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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ANNN  
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Table 4

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GCAGAGAAAACCTTACAGGGTCTTGCCTATTTGCATACTAAAGGCCAAAATGCATAGAGATATC  
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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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CATGTGACTCTATATGAAGACAACCATCACATTCCACAGCACATCATTGGTTCATTTTCGAAT  
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AACAAATCATAACAACAGAACCAAAACCCAACTTCTCTATTATTAATCATGTTAAATTTTAGCT  
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CCTCTAGGCAATAGTTATGATCTGATCTCGAGTTCCAAGGGAAAATGCTCAAAGTTTATT  
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GACAGGTTTATAAGGATGCGGTGGCAGCCGCGGGTTCTGGGAGCTGCTAGACGGCCGAGT  
TTGATTTCTTGCAGTCCTGAGCGATGGAGCCCGGGGGTGCTGGTTATTGTCCGCTTCTCT  
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GCTAAATATTCCAGTTGTTTTGAAGTTGTACCCTGGCCGGCCCGGGCAGGTACATTTT  
GCTTCTAGAAAAGCTAAGTCTGGGTTCCCTCTGATTTTAGGTTCCAGGAACCTTCTTGAA  
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NNNGCAGCCTCCGGAGTCAGTGCCGCGCGCCCGCGCCCGCGCCTTCTGCTC  
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GCCGCGGAGCCGGGCAACGCTGGGGACTGCGCCTTTTGTCCCGGAGGTCCCTGGAAGTT  
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GCGCAGAGCCGGCATGGGCATCGGGCGCAGCGAGGGGGGCCCGCGGGGCGAGCCCTG  
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Table 4

TGGTGTGGATCTATTGGCTGATCTATGCCTTCAACTAGAAAAATTCTAATGATTGGCAAGTCA  
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NNNNNNNNNNNGCCTGAGGTGGGTGGCGGTGGAAGTTAAGGGAGTCAGGGGCTATC  
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Table 4

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Table 4

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GACCAAAAGGTAGGTTTTGCATATGTGTTTGTCCAGATGTCATAATTCCAAATCTTGTTTTAA  
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GCTGCATTACCGTAGGGTCGTGAGGAACAAACACGATCCCTACGAGCGGGCCGTGTACCTC  
GGCCGCCACC

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CGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTAGTGTCTGATGTC  
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GTCCATGTTGCCAAAACCTGGTCTGGAACCAACACCCAGCTAATTTTTGTGAATTGCGGGT

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Table 4

ACCAGCACACCGGCGCCGTCCTGGACTGCGCCTTCTACGATCCAACGCATGCCTGGAGTG  
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CCCATGATGCCCCCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGGA  
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CAGCATGATGGATACGCTTGGACAAGCGCTCATTGTTGACGGTGGACCAAACTCCGGAAT  
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GCGATAAACACAGACCCAGGGGGTTTATTAAACCGCATTAGACCGCGAGCAGGGGTCTCA  
ACCCGCGGGGGGAGGCAGCAACGCCTTGTAATGAGCACAGNNN

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GACACCTCGTGATCCTCGTGTGGCTGAAGGAACAAGGCTATGACGTCATTGCCTATCTGG  
CCAACATTGGCCAGAAGGAAGACTTCGAGGAAGCCAGGAAGAAGGCACTGAAGCTTGGGG



Table 4

CCAAAAAGGTGTTTCATTGAGGATGTCAGCAGGGAGTTTGTGGAGGAGTTCATCTGGCCGGC  
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TGGTGTATACCGGTTTCTGGCACAGCCCTGAGTGTGAATTTGTCCGCCACTGCATCGCCAA  
GTCCCAGGAGCGAGTGGAAGGGAAAGTGCAAGGTGTCCTCCTCAAGGGCCAGGTGTACAT  
CCTCGGCCGGGAGTCCCCACTGTCTCTCTACAATGAGGAGCTGGTGAGCATGAACGTGCAG  
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ATATCATCGTCTCCAGAGCAAGGTCACTGCCAAATAGACCCGTGTACAATGAGGAGCTGGG  
GCCTCCTCAATTTGCAGATCCCCCAAGTACAGGCGCTAATTGTTGTGATAATTTGTAATTGTG  
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CCCCTGAAGCCTGCAAACGTTGTCTCATGAAGGGAAGGGTGGGGGGCAGCTGCGGTGGGGA  
GCTATAAAAATGACAATTAAGAGACACTAGTCCACACACAAACACAAAGACAACAACAAAA  
CAAAAACAACACGCGTCTCTTCTTGCGCAACAAAAAGCGACCGATATTACACCACATTCATAA  
GATACGCCCTAGGATACGGAN

&gt;705

&gt;706

NNANAACGTACGAGTAAATTTTCATTACCTTTAATTAGGCAATGTTTCTTAGATAACC  
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&gt;707

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Table 4

&gt;708

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TCTATCAGGCACCACTTGGGATCAGTTATAAACTCTAGAGTGGTAAGTGTCTTCACATTCT  
TTAAGCACTAAAGAAAACCTTTAATTAGCTACCTTGCTTCCAGTAATCAAACCTAGAGCTCCTCT  
GCCTTGTGTAAGTTGCTATAAAGTATTGACTATTAGAATGTCTTGAACCTTTGGTTACTGTGAG  
CCAAGTCGGTGTCTCAAAGTATATTTATAGTCTCAATTATATAGTAATTTAGGTTCTGAAAAAT  
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&gt;709

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&gt;710

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&gt;711

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&gt;712

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AGAACTGCATCCTGAAAGGTTGTG

&gt;713

NNNNCGCTCTTGTTGCCAGGCTGGAGTGCAATGGCATGATCTTGGCTCACCACAA  
CCTCCGCTCCCGGGTTCATATGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACA

Table 4

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&gt;714

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&gt;715

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CAAAGCAAAATAAGTCTTTGATGTTTTATACTATTATAGCAAGATATAAGTATTTAATCTGCA  
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&gt;716

&gt;717

&gt;718

&gt;719

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNGGAGACAGGGTCTCGCTCTATCACCTAG  
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&gt;720

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Table 4

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&gt;721

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&gt;722

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TTATCATAACTGCTTAACTGCCATTATAGTGAGAAAGCAGCCACAGACAATATGTAAATGAAA  
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TAN

&gt;723

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**>724**

**>725**

**>726**

**>727**

**>728**

**>730**

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Table 4

TCCTGGCTGATTCTCATGCTACAGAAAGCCCGAGTTTCTGTTCTGTAAATTGGGACAAGTGC  
CCGCN

>731

NNNNNNNNGTAACTAGTCTTCTAAGCTTTCATTACATTTTGTTCAAAATCAGTTGGA  
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>732

>733

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>734

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NNNNNNNNNNNNNN

>735

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CGCCTCCTCTAAGCCTCAGCAGAAAGCCCTCAACATCCACTTTTCCACAACATTCTGTCTAT  
GATACCTGCATTCTCTGAGATGCTAGAAGCTTTCTCTCCAGCTCTCCCTTTCTCTCTGAGC  
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>736

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>737

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Table 4

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&gt;738

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&gt;739

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&gt;740

&gt;741

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Table 4

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>743

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>746

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Table 4

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&gt;747

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&gt;748

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&gt;749

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Table 4

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Table 4

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>756

>757

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>758

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>759

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>760

>761

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Table 4

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>763

>764

>765

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>769

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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&gt;783

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Table 4

TGAGGCTTGAGATTGCTGTTGATAGACAAGTTTTCAAGATCTATTTCCCTTCATTCTAGGCT  
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&gt;784

&gt;785

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&gt;786

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&gt;787

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Table 4

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CTGGATGGTGAATGGGGGTGCATTAGTCAGAATTCTCCAGAGAAACAGAAAAATAAGATTCT  
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&gt;788

&gt;789

ACTTTAATTTCTTTATAATTTGTTTCAGCTATTTAAAAAGATAATCCACAATCTCCTACC  
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&gt;790

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GAAATAGTTTCATATCATAGAAAGGCAACAGGAGCTGAGCCAGTTGAACTGAAGCCTACA  
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N

&gt;791

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GCCCCAGTTCTTCATGTTAGGTGATTTCTTGCAGCTCTTGGTATCTGCAGAATTAGTGTGAA  
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Table 4

&gt;792

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TTATCTACAAAGTAGCCAGTAAAGGTTAAGTTTTAGTGTTGAGTGGTGTGGCCTTTAGCTAGC  
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&gt;793

&gt;794

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&gt;795

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&gt;796

&gt;797

&gt;798

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&gt;799

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&gt;800

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Table 4

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&gt;801

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&gt;802

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&gt;803

&gt;804

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&gt;805

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&gt;806

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&gt;807

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Table 4

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>813

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Table 4

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&gt;814

&gt;815

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&gt;816

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Table 4

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&gt;818

&gt;819

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Table 4

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Table 4

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&gt;822

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&gt;823

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&gt;824

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&gt;825

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Table 4

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&gt;826

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&gt;827

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&gt;828

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TCTTCTGTCAGTTTAAATTGTGGAAGTCAAGCCAGGCCCTTAAGAGGATGGAGGGGAGTTTTTC  
CCACAGCAGTTCTGAATGGGATGAAGTGAATAAATACTCCCATTTGCCACTACACCACC  
TCCAGATGAGTCTTGACAGCAGAAATACCGTTTAACTGTTTCTGCTTTTATTTTTTCTGATTAT  
CATCCAGTTTTATATATTATATCTGTGTGCTTTGATAATTATATATACATACTTTTTTGATATT  
ATTTACTTATTCTTACATTGAAAAGGAAGTGTCTGTGAATCTACATTCCCTTTCTCCTACA  
TTTTTTTTAGTTTTCTTCATTTGGTTTCTAATTGAACTAGAGGTAGACTGACTGTAATAGAA  
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GAATTTGCAGTATGTN

&gt;829

NNNNCGAGGTGACGGTATCATAAGTTTTTTTTTTTTTTTTTTTTTTTTTTTGTAAAATCATT  
ATTATTATCAGGAGTGCCTTTTAGGTGGACCGCTCTGTATGACTCTCATGCTTCAAACTATT

Table 4

TTTTATTCAAGTGACTTACAATGGCCCTAGGAAACAAGTTCTGTTATTATCCCCATTTTAAAA  
TGATGAAAATGGACAAAGCAAAAGCAAGCAACTTAACCAATACCCCATGGCCTCACAGCCTT  
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GTGCGAAATCCCTTAAACTCATATCAGACCTGTGATGAACAAACTCACACTAAGTTTTAAAAA  
CTGCTTAATTTACTTTATCATGACTAGTAATATATAAGAATTTTGTATATACTTTATTAATAA  
ACTTTGGAAAATATTTTGCCTGATCAGCAATAAACTACTGATAAGATAAGCTGGTTATCA  
AATAATTCCTAGTGTTAATCTGGCAAATAATTGTTATAACCCAATCTTGTGAATTGAAGACAG  
GCACATTATAGATAATCAAAAATATTAGAAACACATTTAAAAATGTCCATATGTTTAGTATAAAT  
AGAAAATTCATTGACTAAAATAAGTCATGAAACATGGACTGGAATTTTGTGAGCTATTAAGTTT  
CATTTTGTTTTACTGTTTTAAAAATTAATAGTTTGGCTCATTTCTACATTTGTTAAATTTGTAA  
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AATGAAGCAATCACCAAGATATTTGAAACAACAAAGTTAACATTACAATGATTTCAAGAAAAA  
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ACTGGAGAGAGAAAACAGAAAAGAGACAGAGAGAAAAGAGAGAGATGCTACTTGACATTTTAAAG  
ACCAAAAACCTTGACAGTAGTAAAAATACATTCTGAAAGTATTTTAAACTTAAATTTCACTGGCA  
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GT

&gt;830

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Table 4

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GTTTAAAAGCAACATGCCTGCAAAACATATGATAAAAAATACCTCTGTAAGGGTTTTATTGT  
CCACCTTCGATTGGAAGGTAAACATGGCTGATCCCAGCCAAGATGAAACAATAGCCCTTTGTC  
TCCTCAGAACAACCTATCTCCAACCTTTTGTCCACTGTTCTTACCCCAATTAACAAGAAAG  
CATGTGCTAATCCTTTTTTAATTTTTATCAACCTGCCTTGGCCTCCTTTCACTGTAATCCATTA  
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CCTACCTTCTTTTAGAATCTGGGGCTTATCTTTTAGTACAAGCCATTGAATAAGCCTCTTCTT  
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ATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTATCTAAATTTCTACTGAAG  
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GAATCTGACATGGTTTGAAAAATCATGAAGGGTATATATAAAGGATGCATGTGTAGGAGCCA  
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GAACTCAATAAATGTTTACCATTATTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
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CCCGGACGNNNNNNNNNNNN

&gt;831

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GCTTGTGAAGGGTTAGTTATCTAGTTTCCTCCTTTCTTTTTTGGAAATTTGGTCTTTAAGGT  
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CTTAATTTAAGCAAGCATTGGTTGCTGCAGTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACT  
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GCACTCTN

&gt;832

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CTGCTGTCCAAAACAGGAAATATAGGAAATACCAGCTGAGAACTATCCACTTGACGTCCAT  
GAGCCCAGCTGCCCTCTCACCTCACTCCTATTTAAGTCAGTGACACACAGTCATGCTTTC  
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AGTTATTTTATAGACCTGGGAATGGTCTAAACATTTTGCTCAGCCTAATCATTGGATCCTTC  
AAGGAAATGGATATTCTGATGCACATCCACCCGGTGTCTATCAAATGGAACCTTAGCTCT  
CAGGCAACTTGTTAGTTGAAGGCAGTGACAATGAGGCCAAGAATGACTCCTGGCTCCTCCA  
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Table 4

&gt;833.

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TGATTAACACAATTACAAAAAAGAAATGGTATTTGGTCATTCTCTGAGTTCAATCTGTGCTC  
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AAACTATANNNNNNN

&gt;834

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTTATCTGACCACTTCCAGGAACAAA  
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GCAGACTGTGGATAGAGCCCCGAAGCCTCAGGTAGGCAGCTTGCATCCAGCTGTGAGTCCC  
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&gt;835

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ATGGGAATGTGATCAGGTGCGACATGGGCTCACAGCCTCACTGAGGCTGGATCTTTTTTTC  
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CNNNNNN

&gt;836

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CCGCTGACTGAAATCTTAAGTGTCCCTACTAAGTGGTCTTACTAAGGGTAAGAAGCTGAGG  
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AGAATGTGAAAAATATGGCAAAGTTGGACAATGTGTGATATTTGAAGTAAGAGCGTTTTCTT  
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TTAGTTCCCTAGACATGCCTTTGGTTTCAGTCATTTGGTGAGTATTTAGTGCCTCTCACATG  
CACTGCAGTGTGCGGAGAGCACTTGGATTACAGGAAGCATGCTCTGTACTCTCAGTGGTGT  
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TTGGGATAATGGCTCGTAGGAGACAGTGAAGATCAGGACTACCAAATGGAATGGATGGGC  
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CAGACTAGTCAAATGAGACCTGATGTGAAAGGCCACTAGGGCACCAGCCTTTTTAATCTGA  
AAGCTCTGCTTCTCTGTTTCTTTATCCTGTTGCTGGTTGTTGACCACATAATTATTTGTTTAC  
GTCATCAGCTGGCACAGGGCCTTTATGAGGTCAGAGACTGCCTAGCCCTGTGTTCTGGCA

Table 4

CCTAACAAATGCCTGTCATAAAAAACAGGCATTTCAGTACGTTTTTGTATGATGAACAAATTATACT  
TATTTCCCTTGGTATTTGACAACACTACTTGACTGTATATGATGATAATTAGAATATCCACTCTGAG  
AAATCATTTAAAAGAGAAAACTCATTCAATGCAATCTCAAATGCCTTTACTCATCACGCTCTCA  
TTTTCTTCCAGATTCTGGTGCCCTGATGATGAAGCAGTACGGATATTTTTAGAATTTGAGA  
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CGACCATCATCATCATCATCATTGAGTTTAAACGGTCTCC

&gt;837

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GAGGAAAAATTCATAGCAATTTATAACAGCTGAGAAAAAGAGGGAGGATGCGGGAAGGTAG  
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TGNNN

&gt;838

&gt;839

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CTTACTCAATCTTGGATCAAAGGGCGTTGGAGGAGGAGGCTGGGAGGGAAATCCAGACAG  
TTCTCCGCTCTGACATCAGGTCCAGCTGTTAGCATCGTGCTGTGGGTCCCTGAACAAGAA  
GCAAAGTCAGGACTGGTTTGGCCAGGTAGGTGAGGATCCAGTGTGGGTGATTCTGATCCA  
TGCAAGCCTTAGAGGCGACACAGACGTGAACCTGGACATTCTAGGAAGAAAGAGCCGACTGC  
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&gt;840

&gt;841

NNNNGATAACAGAGTTTATATACCTCCTGTCCCCATCTGTACACTTAAAAATGTATGT  
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&gt;842

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&gt;843

ACTTTTTTTTTTTTTTTTTTGCCTATTAATTGATTAGGAAAAATAGGTAGACCCTGAG  
TGAAAGTAGAAAAGAACCAATTCTGGTAAAAATCTGAAAGTAGAAAAGAACCTTTAGCTTTAA  
AGGTATGTCTTAATAGAGCAGTGCTAAGACAGGTGGTTAGGTATGTGAATGCATGCCACTTA



Table 4

GAAAAGAATATGAAGGAGAAGGGACCAAGAAGGCAGATACATTGCCCTGATAAAGAAGTC  
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&gt;844

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TCAGGCCTGTGTGACTCCAAAGTCCAGTGCTCTCTCCACTTTACCAGGTAACCTTCATAATA  
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&gt;845

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&gt;846

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TACTTTTGTAAGTANN

&gt;847

&gt;848

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Table 4

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&gt;849

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&gt;850

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Table 4

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&gt;851

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&gt;853

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&gt;854

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N

&gt;855

&gt;856

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846  
Table 4

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&gt;857

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&gt;858

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&gt;859

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Table 4

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>860

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>862

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>864

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Table 4

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&gt;865

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&gt;866

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&gt;867

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&gt;868

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&gt;869

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&gt;870

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Table 4

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&gt;871

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GGGTCTAAAAGGATCATATTTAGTTTCTGGTTATTTCATGGTTGCACTCACTTTAGAGGATGTG  
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&gt;872

ACAGTTCTGTGTTTTCAATTGATACATACTACTTATGTAAGAAAAATGAGTAAAAATA  
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TTAACCATGAATGAAAACAAATGGGAAAAACAACAACAAAAACAAAAACAAAAACAAAAAC  
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&gt;873

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&gt;874

NNNNNNGCGTGGTCGCTTTTCGAGGTAAGGATGACTAGATGACAAATAATAAG  
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GTTGGCAGCAAAATCAGAAATAGAAAGCAGTTACTCAACAACCAACAGTTTAATTTAAGAAAC  
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GTAGT

&gt;875

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CCAATTTCTGTGTCCAAAACAACTTGATTAGTATCAGAAGGAAAGTCAATGTTTAAACAGTC  
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&gt;876

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CCTTCCCTCCCTTGAAGACCATTATCCCTGCCCAAATGCAATGGCAGTAGTTGACATTTTTG  
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Table 4

GTCATATCAAAGGGAATTTTTTTGTAAGAATTTTCAGGTAACCTCTCTAAATCTAGATAGGAGA  
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AACTTGGCTCCTTTGCCACCATGGGACCGCTGAGCTCCAGCGAGGTGGGCAGGGTCTG  
GGAAAGTGATTGAGCTCGGCCAGTTCAGGAGGTGCCATCTGAGACTACAGTATCAGGGAG  
GCGAGGACCATGTGGATAGCAATGGGGGACATTCCTACTCCAGAAGATGGAGAGTAGTTTCC  
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AGATGTCCAGGCCATGTCTGCAGAGATTGGATCCAGTAGGTCTAGGGTGGGTCCAGGAAT  
CTGAATTTTAAACAAGTACCTGAAGAGTTCTGATCACACTTTAAGAAATATTAATCTAGGCCG  
GGTGCGGGTAGCTTAAGGGAGTCTGTCTAGAGTCNN

&gt;877

&gt;878

ACATGTTTGTAAAATTCCTTAAAAATTTTATGCTCAAACCAACATTTCCATTTTATCTAT  
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&gt;879

NNNNNNNCAGGTACAAGGAGCTAGATCATCAAGGAAGGTCAGGGCAGGGTTCACA  
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AGTGCCACAGTAGAAACACTTTGATAGCTAAGATGCTGTCTATCCCTTGTTGTTATTCTGTGC  
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CTGCATTCATTCACTGGGAACCTACAAGCCCTCTTGCTTCAATCAACTCCTCAATCAGTTTC  
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&gt;880

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GAGGTTTCCAGGACTGGGAGTTACTTGATATAGAGTTTCAATTTTGAAGATAAAAAAGTTC  
TGGATATTGGTTGCACAGCAATATGAATATACTTAACACTACTGAACTGCACACTTAAAGATG  
GTTAAGATGGTAAATTTTGTAGGTGTTTCTACCACATTTTACAAAAAATTTTAAATTAAGG  
AATTACAAAATGTACAAAATACTATTATCATTTGTGTTTCCAGTTTATATTCAACACAGCAGTA  
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&gt;881

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CGTATTTGGTTTGGTTATCTGAAGTTTAATTGCATTCATTGTGTTTATAGTATTTATCCCTGTA  
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&gt;882

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AGAATTTAAAATTTACCATTACTAAGACAGGGTGATAGTAAGCATAGAATTTTGGGATGTCTT  
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&gt;883



Table 4

&gt;884

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TGGAAAACCTAGATGTATGAACAGAAGCAGGAGGAATAGGAGAAGGTTTGGAAAACAGCAAG  
CAGCTCAGTTTCTTGGGTGGTCCAGGAGAAGAAGCTCAAACAACAGTCAGTGATAACACTAA  
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&gt;885

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AGGGTTTCGCTTATATTTGGCTCAACTACTTTCTCTTGCTTGGTTTAGTAACACTAATGTTTAC  
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&gt;886

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CTGCTTCCATGCTCTAAAACCTTCTGGGCCTCAGATTTGGATGCTAATATGATTTTCCACTT  
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AGTCTAGAGCTAATAAAACAAAGACAAAGAAGGGATCACGCAGAAAGCTTGGTAAAGACTGT  
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&gt;887

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NNNNNNNNNNNN

&gt;888

&gt;889

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&gt;890

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CGGACTAGGGGGCATCATCTGCTGTTAAGAGGGTGATGACTCGCTAAAAATGAGGGCCTGA  
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&gt;891

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Table 4

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AATGATGCCGGGAGGTCTTAAAAATAATATAAGTTCCAGAATGATAAAACAGGCTGGCACAAA  
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&gt;892

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&gt;893

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&gt;894

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ATCTGGACCAGTTTATTAATGGGATTTCTGCCACAAACCTTGAAGAATCACATCATCT

&gt;895

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&gt;896

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&gt;897

&gt;898

&gt;899

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&gt;900

&gt;901

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Table 4

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>902

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GCCCACCCCATGTCAACTCAGTGTATACTACTACTAAGCTTCAGACTCAAATTTATTTCCAAA  
CCAAAGAACGCTCAAGGGTCTTTTCGCATGCTGCAACTGCTCAATTCACAGAATCACCCCTA  
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>903

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>905

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>906

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AAAATGAGATTCTCAGGATACAAAAGCAAGGAGAAGACAGGAATAAATCAGGACTCCAACA  
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TT

>907

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>908

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GCCTGTCTGTAGGCCTTAATGATGTTTTATTGAATTTTGGN

>909

>910

ACTCAATGGGGTAGGGTGTCTTGGGATCTGACTGTTTCTTAGACCTTCAATGCTTCT  
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Table 4

TCTGCTTTTCAGCTTCCAAAAATTCATTGCTATTATCTCCTCTCCTGTTTTCCCTATGGTGTGT  
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NN

&gt;911

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AAGGCTAAAAGGTTTGTGAGAAACCTCATGAGCACTGAGTGTTCTAGTTCAGATGAAAACC  
GGTTTCAGGTATGAAGCAAGAGGGAGTGCTAATTGGTAGAAGTAATTACATCTTT

&gt;912

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GATTTTGTTCAGGTGTTAAAATAAACTAAGACACTTAAGGACCACAAAAATTTAGACCAAAG  
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TTCATGATTTCTCTTACTATGAAACATTTTTTTTTTTTCTTAACAGTTATCTTAAAAGCAACTC  
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&gt;913

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&gt;914

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&gt;915

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&gt;916

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TCCTATTTGTCCCTTCCCTTTAAACAAACAAAGTGCCGGCTGGACGCAGTGGCTCATGCT  
GGTAATCCAGCATTCTGAGAGGCTGAGGCAGGCGGATCACCTGAG

&gt;917

ACTGCCTGGCATGCATCTTCTCGATGGTCTGTTATCTTGTGGGAATGACATTCGTTA  
AGTTGTTTTCTGTGTGCATCCCACCCAAATAAAGAAATGTTTCATCAGCAAAGTGAATTGCCGT  
ATAGTCATCAGACTCTAGAAATAAATTATCAACGATGACTGCAGTGGGTGAGGCTGTTTGT  
ATCACATCACTTGAGAACAGAGTAAAGTGAGTTTCATATTTTCTGAGTCTTGAATTCCTATT  
TAGACATCTGTTCAGAAGCTTTCTAAGCCATGGAGTATTCTAAATGAG

&gt;918

NATAGGGAGTCGACCCACGCGTCCGGGGGAGTAAGGTGGTCAACTATAAACAAGC  
ATTTTCAGTGTATTTTTAAGGTTCAATAAATAAATGTGCAGGACAGAATTTTAGGGACA  
TTAAATGATTAATGAAAAAGTATTACAATGCTAAAAGATTTATGAGATGACTATTTTGCAT  
TGACTAGACTAAAAGTTCATTTAAAATATTAATATGTGTATTACAGTGCTGAAAATTCCTAGGA  
CATTTAATGACATGGTTACAGACTCTGTCTTTCCAAGTACTTAACAATTGCATTTTCATGGTTC  
TGATGTCACTTGAGAGGCATATTTTATTGAATCGCCTGTATCATCTGGCCTATAAATAGA  
ACTCCCAGAATATCTACAAAGTGGTAATGCATTAATATAGGGCTTTTACAGCACTTGACAGG  
TAGTAGGCAAACTTGTTGATAACCCACGCTCTGGTTCTATTATTGTATTACCACCGGCTATG

Table 4

CTGCTTCACATCTTAGAGCATACTGTGCTACTTGCTGTCCCAGCAATCAATACTGAGTCACAT  
CTGGATGGCTTGAGCAAGCCACCTATGGCGAACCACGCAAGAACCCTTTCTGCTGCCATGT  
ATTTAGGATATGGTTGTGTGTGACTTGAGACTGCTTGGGAGCCATTCTGAACATTTTCATAAT  
GACTTCCTCCATAATCAGTCTGGGAGACCGTAGGGTATATGATAGTTCTTAACATGATTTGCC  
TTCTTGAAC TAGTTCTAAAGAAGACCCATGTTGATCTGAGTCTCATACTTTAGCTAATTAAGTT  
CAAGGGAAACACCATTTATTTGAGGGAATTATCTCATTATTTTTTGTCTAACCAAACACATTTTG  
AAATGCATTAATAAAGACAAGTGACCACTGCTGAAAGCTGTTCCCAAAGCCATATGCATAC  
CATCTGGTATTTCTTCCACGGCCACTGTTTCAGTATTCTGTGGCAGGTCTGGAGGGAATCAG  
GGACACATTTTCACTGCCATGAATAAAGAGCAGGGAAAGTGAGGACATACTTTGTTTTCA  
AGGGGAAGAAAATGATTTTCTTAATATAAAGTTATTGGTAACTTTATAATTGTAGTACTAATGT  
GCAANNNNNNNNNNNNNNNNNN

&gt;919

ACTTATCAGGATGAAATCAGAATCACAGTTGGCCTTTTGCCTAAGGGAAGGGTATT  
TGGAGAAGAGTCAACCACCACTCATGCCTCTCCCCTGCCAGCAGCACCTTGGATTTTCTGT  
GCTTTATGCCTCCTGTTTCCCCTGGCTGAGTAACTGCAGGCATTAGGTTCTCTACACACGA  
TATATTACAGGGAAATGGCAGCGATGGTCTGGAAGGGCAACACTGGCCTTCTTTCTCCTCTGA  
GCACTAAAATCCTAAACATGCAACTTAAAAAATAATTCTAAATGTGAACACCACCTTTTCAGTA  
ATTTATATTAATGTATCATCTCACCTCTTTTCTCCTCTTCCAACGCCCTTCTTTCTACCCAA  
ACTCCAATATACCAATTTGTTTGAACAGTTTACATTCTAAGTGTCCAACCTATTGCTAAAGGAA  
TGGATAAATTGTTGT

&gt;920

ACTGCTATTTCTAGTTCAAAATCACAGATTTTCAGATTGAAAAAATTTCAATCCACTTA  
TTTTTCAAATGAGATAACTGGGACAAAGAGAAATTCATGACTTGCCCAAGATTACCTACAGT  
TTAACTGTCAGCGGGGCTTAAACCACAATCCACATCTCCTGACTCCCAATCCTTTCACTTAA  
AACAAACAAGCACACAAACAAAAAGATTTCTAATAAAGTGGAATAATTTTAAGAAAGGCAAG  
TATCACTATTTTACAAGGAAAAAATTAATCATTTTAAACAGATTGGCAAACATGAAGTAGTTC  
TTGGGGGGAAAAAGAGAAGTCTTACAAGAAAAAATGTAATCAAGAGAGTGCCAAATTCGGT  
AAAATGCTT

&gt;921

ACTCACATGTAAACTTCTACTTTCCCCTTCAGATTACAGCAACCATCATGCCAAAGCT  
ATACACTCTCAGGGAATCCCTGTGGATTTCACTGATGACCACTTGACCAACTATCATAAAGAT  
CAAGGCCAGGGGTTCTCAAACTCTCAACATTTGTGTGCTCATCTCCCCTTCACCCAGAGACT  
CCCCAGGGCTGCTGGGCCACACTTTGGTTTGTGTTGACTGGAACATAGTTTGAAAGGGATGG  
AAATTTCCAAAAGGTGTTAATAGACACATAAAGATTTTAAATATTAATAAAGAAAAAGAAA  
GAA

&gt;922

NNNACTTTACAGAAATACGGAAAGTGACCATGCAAGATGTCAGGGACTCTTCATATT  
TTATCTCTTTCTGAAATAAATCATTTTGAACCTCTGGGGGTACCTGGCAACTTTCTCACATATT  
GGAAGTATGTCATATGGGTTGGCCACAAGAACCCTGGCGTCTTTCTCGCATATGGGATCTATT  
TTTAAAGACATATGGCCATAAATGTCCCAAGAAATACCCAGGTAGAGATGAAAGCAAACATG  
TACATATATATAAACACACACACAAACATGTTTATGTACATACAGTATGCACTCCCTTCTCTG  
TGTTTTTTGTCTGAGTTGATGATTTGGAGCTCAAAGAGCTAGCGGAGGGAAAAAGCTGAAGCC  
ATTCAAACACATAATGAGAATTGGAGATGTAAGAAGAGGCTGAGTTCTAGGAGTTGCAACAA  
CTTAGGAGATAACAGAACCAATTCGGAATGAGCAGGAATTGTAGGAATGCAGGCGAGGACT  
AGAAGAATCAGCTACATGCTGTTTACTGGCAAAGCAGGAGAAATGTGACTGAGGACAGTATG  
CCACTGAAAACCTGATGAAAGAGGAGGGAGACAGGAGGACAGGGCTCTTGTGGGTAGCAGG  
AAGACAGAATGGAATAAACCATGTTAACAAGATGGCTTTTGGCAGCAGCAGCAGCACCAG  
GCCAGCTGTCTCTCTCCTCCAATTCAAGTTACCACCACAAAACCCATTTGCAGTGGGAAGAG  
CTGCTGCATATCCGAGTGGATTAAGGTTATTTATTCACATGTGGACCATTCAATTAATTTTTGT  
TTTCTGTGTTTCTTAAATGATTATCATTGGAGGTGCAGCACTGGTGTACTTATGATTTTTTAA  
AAGCTGCTTCAAAGTTTAAAGCATTTATTTCAACCAATAGTGAGTTAACCTCTGTGTTATAGAAAT  
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AATGGCAAAGAAAACTAAAAATAACAACTCCTGGTTTTGTCCCAATCCCTTTCTGCAGAAC  
TAGTCAAAGCCCCAACAGAAAAGATGTTAAAAAATCAAGTACTGTAGCCTTAAAGGTGTCACT  
CAATTTGCATTCTACAGCTAAGTGTAGAAGTCAAGAGTAGCATTATGAGCTACCAACTCCGT  
GTGGCAGACTGACATTATCTAAATTAAGCCTGGGATTTTATCAAGACAGACTATCTTCATAAN

Table 4

&gt;923

ACTGTTGTCTCATGCTCTCTTTCTGTTAATAGCACCTCAATTCTACTCTGGGGGACAT  
TCCTCCTCTCTTTTTGGTCTGGAATGTCCCCTGGCTTCAGGGACAGCTCAACATGGGCCTGG  
ACAGTCAAATTCATCCCCAAGCTTGGGACTCAGGGAGACCATCCAGTGACTGTTCTCTGAAG  
TGCTGGGAAGGCAGAGCTCCCTTTCTGCGGGGTGCTGAGTGATGGGACGACAGTGTTGGAG  
CTACTGNGCTCTCCAAGCCGGTGCCAGGACCAGCCTGCCTGAGAACGAAGCCAN

&gt;924

ACTTGCCCTTGCAAAATTATATTACAAGAAGAAGCACACTTGTTATAGAAGTGCTGAAT  
TGTATGGAACCTAAATCTGTCAAGTTACCCTGTCTTTACGGGTCCGTCTCCCCACCTCCCAG  
ACCTCATTATATTATCCCGAAAAGAACAGATCTCTTAAGGCTAGGCAAGTATTGCGCTGAT  
GAGCCAGGGACTGCCACCAATTGGCAGGCCATTGGGTGATAAATGTCCAAGGACCTCTA  
GGCTGACGACACATTTTTCATCATTAATCCAGCCTATTGTAACCAGGGGCCACTCACATTGATT  
CGGACTAGGGGGCATCATCTGCTGTTAAGAGGGTGATGACTCGCTAAAAATGAGGGCCTGA  
AACTAATCAAATATATTTAGAGCCTTCCCTGGCAACTTGCTGGGAGAGCAGCAGTAGACAGC  
TAATAGGGGAGCCCCAGACAGGTAGCGCGGAGCTCACCATGCN

&gt;925

NN  
ACATATAAAAAATACTTTAAAATATAGTAACACTTTACAAAATATGTATCTAATTAATAATACAT  
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ACATCTATTCTTTGAATAAAGCTTAAAAATTTGTTTATAATTTTCAAACCTAAGAAAAGAAGTAGT  
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GTCTTTTCTAATACCCAGTCAATCACCTGTACAGCATTGTTGTTTGCTGTTTTCTTCATTTCTT  
CAAATAGACCCCTTGAAGTTTAAAGATCCTTTAGATAGAACTTAGAGATTTCAAAGAGACGCT  
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ACTATTCTTTTCAGTATCCGTGTGTGTTTCTGTGATCTTGATTCTTAATTTGCCTTGATGTTT  
TTGATTTCATGCATACTTTTTGACCTGAACCTGGTCTTTGTAGCAAGTTTTGGAGTTTCACAGC  
TAGGAATTGGAACCAATGGACAAGTCACTGGTAAGGACCGCTCTGTTTGTGGCTTTCTGGAT  
GTCACATGATGATGATAGTGATTACTATTACCAGTTGTCTGAGAAAGAAGAGACTCTGAACCT  
TCAGATTTCAACAAGTCTTTTTCTGGGATAAAGGCAATTCAGATCTTTAGATCTCCGTTTCAATC  
GGGATACTTCAGTTCGAAGTTCATTTTGTAAAACCTTCTCCGTCAGGGACACTTCCAGGATCT  
GACGAAACTACAGGAGATGGAAGAGGGCTCAACACAGTAGGTAAGTGGAAAACCTTTCTCTGG  
TGCAGGTAGTTTGAGTTTCATAACGAATAAGACGAGACTGAAGTTCAAAAAATCCTCCATCTC  
TTTCCAAAGCTTTTTCGGTCATCCAAGCAATGGTCAATTCATGATAATGACATACTGAGGCTT  
TCTCAAAGGTAAGACCTGAAGTTTCCAGGACTAAGTTCTGGTGTCAAAAACAAAGTCTTTT  
CCCCCTTTTGAATCGGTAAAGGTTGAAGATCTCCAANNNNN

&gt;926

ACCCAAACACAAGATTGCTAATAGACTGCTAATAATAGAACTTAATAAATGAAATAAT  
TTATTTCAATTAATTGTTGCTTGGAATACAGAAAGTGCTTAGTAAATATTGAATGAATCAACAAA  
GTACCTCCCAATATAGAGAAATCACTTCTGAAAAGGATAAAACCAAGTTGATCCTATTCAATC  
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ACTTTGTTCCAAGTCACTGCTTATAATGTGCTAATGGTACCT

&gt;927

ACGCGGGGATTGCTGATGGATCAGTGAGCCTGTGTTTCATGCCAGTGAGCTGCTGTG  
GCTCAGATACTGATACTTTCTTTCCAAACAGCATAAGAAGTGATTGAGCCACAAGTATACTGA  
AGGAAGGGCTCCCTCGAGTTGTGGTGTGAAGAGATAAATCACCAGTCACAGACTATGCACC  
CGACTGCTGCTGTTTCAGTCCAGGGAAAAATGAAAGTTGGAGTGCTGTGGCTCATTTCCTTCTT  
CACCTTCACTGACGGCCACGGTGGCTTCTGGGGAAAAATGATGGCATCAAAACAAAAAA  
GAACTCATTGTGAATAAGAAAAAACATCTAGGCCAGTCGAAGAATATCAGCTGCTGCTTCA  
GGTGACCTATAGAGATTCCAAGGAGAAAAAGAGATTTGAGAAATTTTCTGAAGCTCTTGAAGC  
CTCCATTATTATGGTCACATGGGCTAATTAGAATTATCAGAGCAAAGGCTACCACAGACTGC  
AACAGCCTGAATGGAGTCTGTCAGTGTACCTGTGAAGACAGCTACACCTGGTTTCTCCCTC  
ATGCCCTTGATCCCCAGAACTGCTACCTTCACACGGCTGGAGCACTCCCAAGCTGTGAATGTC  
ATCTCAACAACCTCAGCCAGAGTGTCATTTCTGTGAGAGAACAAGATTTGGGGCACTTTT  
AAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTCCAAATATG  
CAAATGGAATTGAAATTCAACTTAAAAAGCATATGAAAGAATTCAAGGTTTTGAGTCGGTCA  
GGTCACCCAATTTGCAATGCTGTCTTCCACTTGACAGAGACCCCAATCCTGGAGCCATCCT

Table 4

GTGCTATAATTTCTTTTATTGAGAAATGGAAGCATCGTTGCTGGGTATGAAGTTGTTGGCTCC  
AGCAGTGCATCTGAACTGCTGTCAGCCATTGAACATGTTGCCGAGAAGGCTAAGACAGCCC  
TTCACAAGCTGTTTCCATTAGAAGACGGCTCTTTCAGAGTGTTCCGAAAAGCCCAGTGTAAT  
GACATTGTCTTTGGATTTGGGTCCAAGGATGATGAATATACCCTGCCCTGCAGCAGTGGCTA  
CAGGGGAAACATCACAGCCAAGTGTGAGTCCTCTGGGTGGCAGGTCATCAGGGAGACTTGT  
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GGCAGCTGTGTCATCCTTCGTGCAAAATCTTCTGTCATCATTCCGCAAAAACCCCATCACCA  
CAGTGGGAATCTGGCTTCGGTGGTGTGATTCTGAGCAATATTTTCATCTCTGTCAGTGGCCA  
GCCATTTTCAGGGTGTCCAATTCAACAATGGAGGATGTCATCAGTATAGCTGACAATATCCTTA  
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GTTACTAGAGACATTAGAAAACATCAGCACTCTGGTGCCTCCGACAGCTCTTCTCTGAATTT  
TTCTCGGAAATTCATTGACTGGAAGGGATTCAGTGAACAAAAGCCAACCTCAAAAGGGGTT  
ACAGCTATCAGATTAATAATGTGTCCCAAAATACATCTATTCCCATCAGAGGCCGTGTGTTAA  
TTGGGTGACAGCAATTCAGAGATCCCTTCAGAACTATTATCAGCATGGCCTCGTTGACT  
CTGGGGAAACATTCTACCCGTTTCAAAAAATGGAATGCTCAGGTCAATGGACCTGTGATATC  
CACGGTTATTCAAACTATTCCATAAATGAAGTTTTCTATTTTTTCCAAGATAGAGTCAAAC  
CTGAGCCAGCCTCATTGTGTGTTTTGGGATTTTCAGTCATTTGCAGTGGAACGATGCAGGCTG  
CCACCTAGTGAATGAACTCAAGACATCGTGACGTGCCAATGTAATCACTTGACCTCCTTCT  
CCATATTGATGTACCTTTTGTCCCTCTACAATCTTCCCGTTGTAATAATGGATCACCTATG  
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TCCCTCTTGATTGTGATGTCTGGTCTATGTGGTGCCACAGTGGACACCACGGTGAACCTTCT  
GGGAGTCTGCACAGCTGCTGTGTTCTTTACACACTTCTTCTACTCTCTTGGTCTTCTGGATG  
GTCTGCTGGGTCCCTGGGGTACGGATCATCTCGGTTTCATCCATGGCAGCATTGAGAGGGGG  
GGGTTGCGGGAGGGGGGCCCTTTTTGGTTCCTGTGGTGCCTGCACTCAAGAGGGGTGGG  
TGCTGCCGGGACCCCGTTTGGCCCGGCGGGGTGCGGGCGCCACCAGGGCGGGGAGGA  
GGCCCCGGCGCTCCTGCGTGGGAGGTGGAACNNNNNN

&gt;928

ACAAGAAAGAAAACAAATACCAAGTATTTACAGATCCAGAGAAAAGTTCACAAGAATG  
GGAGGATGCCAGTTCCAATGCTTTGTAAAGTCAAAAATAGCCACATTGCAAAACAAACAAA  
AAAAACGAGAACGTTCCCGAGTGTGCCTCCAAAACATAAAGGAGAAAATCATACAGAAAAAC  
CTCATGTAAGGGTTGGAACCTGAGCAACCAGCTATCCAAATACAGAGGGGAATCCTCGCTTA  
GCTAGGGCATGGCCTGAGAGAAGCCCCCTCCTGCTTTCAGAGCCTACAAGTAGTCCCCAG

&gt;929

ACTTAAGCAATAAATCTGAGCAATTATCAGGTTATTTTATTGCATTTCTAATGAGTTCT  
TCTAAAAAAGTCAATCAATTATCACTGCTATATATGTTCTGTGTGTAAGGAGTGCTTGAGAG  
TCTTTAATTGTAACATTTATTAATAAGAATAAGAGGACATTTTAAAGGAATTAAGGAACAT  
TAATTCCTTCATAAATGTATAGTGCTTAAGCTCTGCTTTAAAGGTCTTTCATGTGCTCTTGG  
GTAACCACTTAGGGCTGAATTATAGTATAAATATCAATAAATGTTGCAATCACAAT

&gt;930

NNAGGCATGCGCCACCACACCCAGCTAATTTTTGTATTTTTTAGTAGCGATGGGGTT  
TTACTGTGTTGCCAGGCTGTTCTTGAACCTCCTGACCTCATGATCCACCCACTTCGGCCTCC  
CAAAGTGCTGGGTGGGCGTGAGCCAACCGCACCCGGCCCCCAATTTTTTTTTTCCAAAAA  
GTAACCAGAAAAGTCATCTCAAGACAGTGTTAGAGAAAGCGTTGTGTTTCCTCCTCTGAGTC  
TTAAGTGGGGGCTTCATGGGAAAGGGAGGATGACTCACTTACTCTGAAATCTGGGCCCAGG  
AAGGACCTCTCCCATCCTTGGAGCCTCCTCATTCTCCTGTCTCTCACTGTCCCCCACCTCT  
ACCATGATGTCTCATTCTGGAAACCCCGAGCAGGGATAGTGGCTTGGGCCCTTCGTCTGG  
CTTTTCTCCCCACACTTGCTCCCTTCTAACATTTTCTCCCTCATCTGACATGGAAGGGGCAAT  
GGTTAACCCAGGAGGGAGGGCAGAGAACAAGGGCCCCACATCCTGGCTCTGCCTCTGACA  
AGCTGTGTGACCTTGGGTATCAGCTGACTCTCGGAGAAAGTGAGGAGGACGGACTTGGGCC  
GTGTCTGGATATTAACTTTGTTGGGTCCCTGACCTCTTTGAGAACTGATGCATGCTTCTCA  
AGAGGCCGCAAGTGCATTTTACACACTATTTTCAGGCACCCACAGATCGCCAGATTTCAGGC  
TCCACAGGCTTCATGTTGAAAACCTCTTAAGTGACAGTGGTCAAGGTACCCACCAACACTTA  
TTAACCTTGACAGTTTGCAAAGNNN

&gt;931

&gt;932

Table 4

&gt;933

ACAGTATGTTTCCACTTATGGACAGATAATTACGTAGTAAACATAGAAACACACGAAC  
TGAAAGGACACACACCAGTATCAGAACTAAGTCACCCATGGGGAGGGACAGAAGGAAATAG  
GATGGAAAGGGGTTGAGGGACTTCAACTGTATTTGTGATGTTTGTAGTTCTTTAAAAACAAAAAT  
CTAAATGACATTTGAAATATGAAACAAACGCAGAAAACATCAAAATGTCAACAATACTTAAAC  
CTGAGTGTGGGTGCCTGAATGTTATATTGGTCTCTG

&gt;934

ACCCAGTATATGAGCAATTGCTCAGCAGTGTTTGGATATAGGGAGTGGATAGCTATT  
ATTAATTGCAGATTATTTTGAAGGAAAAACACACAGAGAATTATGTATCTTTCAGTGTAATG  
TTAGTTCTAAAAACAATCATATTATTTACAAAGCTGCAGTTATAGAACAATTCTGATTTCTG  
CCTCACCCCCACGGTTAATACTGTAAACATTTCTACGTTTCATCTGATAGTGTTATTAATAA  
TAGCTGTTATTTTAAATAGCTATACTAAACATAAAAAATGTTTAGGCCAGGCGTG

&gt;935

ACCTAATTCATAAGATAAGGATTAATGAATTAATATATAAATCCCTTAGATAACAA  
TGCTAGGCATATGTTAAGCACTATGTTAGTATCATCAAATGTTGTTGTTACTGTTATGGAATTT  
ATCACAATATGTAATTATATGTTTCGTAGTGATTATTCATCACCCCTACTGGACTCTAAGGTC  
TGTGAGGATATGCTATTTGGTTTACCACCTGTATCCTCAACAACCTGCTGGTTGTCCCTATTGT  
AGGTGTTAGGTATTAAGTGCATGATAGTGAATACATAAAGGTTTACTTTTTAAAAAAATTCAG  
GAAACCAGATAATCAAAAAGAAAGAAATTAATCACTTAATAAGTTTCATCTCCAGGGATAAG  
AAACATAGGTAAGAGAGATTAACTACTCCTTCAAGTTCAGGCAATTCAGTATTCTAATTG  
AAAGTGTGTGTTTCTTTTTAAGTCTAGTTTTGCTTTTGTGTTTATATGTCATAATTAATTGTG  
TTAAACATAATTTAGAAACCGATCTTTCTATATCCCTCTTTCTATACCCCCCAATTTTACTT  
CACTTTCTTAAACAATAAAAGTCTCCTGTAAACATAAGAAAGCTTTTCTTCTAATTATCTT  
CTTAGGT

&gt;936

ACTACAGATTAAGTATTAATATGCTGTGAGTGCAGATAGAGAACAGAAACAGGCTGT  
TTGATTTACCATGGTCAATGCTCTGATGTGCCAAACACAGGAGGTTGTGGGAACATATAGA  
CAGTGACCAAACCTTTAATGAATACAGGAAGATTTTCTGGAAAAGATGACATGTAGCAGACA  
GCTGACAGACGAGTTTACCAGGTTCAAGCTTAAGTGATAAATCTTTTTATCATAAAATTTT  
AAGTGTGGTAGAGAATAAAAGTTTTGAATTAATGTTGAATGAAATGTGTTATG

&gt;937

GTGACCCACGCGTCCGAAGAGGTCCTATGACAGGATCAAGGTAAGTATGTAGATA  
AAGATGCGTACATTTCTTCTTCTTCTTTTTTTTTTTTTTAAAGGTGTTACTTGCGTGATCA  
ATTCCAGCATCTAATTTAGTTAAGAGACTTTAAAAAGGGATTATATATTGGAGAAAAAGGCAG  
AAATTAAGGTGTATTTTCACTCTTAATATCTCACATAAATGACCTTAGAATTGGCTATGTTAG  
TAGTTAGTTTATGTGGTACATGTTAAACACCAGTAGAGAAACAACCTATGGTTGTGATTAAATC  
ACTTGACTTTCTGCCAGAGCTAGAATCTTAACCTCTTTAAAGACGACTCTGGGAAATCCAG  
TGTTTGTATGTAATAAAGGTAAGTTAATTCTAGATTGAGGGGCAGAGGCTATTTCTTAA  
TCTCAATCTCCTTGGGAAGGGAAAGTATTAGGAGGCAGTAATGGAGTAGAAAGGTGGGA  
TGGCAATAAGAGAAAGATTTAATGTAACAAAACCTGTTTTGTCCCTCTTCTTAAGTAAATAATT  
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TAGGGACCATCTGTCCCTGAGGTGACCTGAGAAACAACCAAGTTGCCACAGACTGTTATTT  
CTTCAAGTGAGCCAGGATTTGATTTCACTGCCTTATATTCTATTTTGTAGTGTACAGTGCTTTGA  
TTTTTGGAAAACTTAAATTTTAAACATATTTGAAAAATGTTATAAGACTTGGACATTAAGTCT  
GTTGATAGCCAAAGTCAGTTTACCAAAGTAAACAAATAAATTCTATGCTTCTTCAATTGTCAAA  
GAGCAGTCTGCCATCATGTGGATATAAATGGACTATGTAAGTGACATGGTGCTTACTCTCT  
ACCTAATAATAGCCTCCCTCCTGTTCCAAACAAGATAACCAACAGGTATTTTAAATTTACCAG  
TTAATATGTTTTGGATAATTGGCTGCCTTGAAATGCTATATGTTTTATAGTACATCATAGCTTT  
AGTTTCTTCTAAGGAAATTACAGTTACATCCTAATCGATTATTAAGTATCACTGTGTCTAA  
GAATGGTGGGAAGATAGGGAATAGGTAGGGAAGTCATTATAAATATATTTTCACTGGCCA  
GGCGTGGTGACCCATGCCTGTAATCCAGCACTTTGGGAGGCCGAGCGGGCGGATCAGG



Table 4

AGGTCAGGAGATGGAGACCATCCTGGCCAACACAGTGAAACCCCGTCTCTACTAAAAATACA  
AAAAGTTGGCCGGACGTGGTGGCAGGCGCCTGTAGTCGTAGTCCGAAGTACTCAGGAGGC  
TGAGGCAGGAGAATGTTGTGAACCCGGGAGGCGGAGCATGCAGTGAGCCGAGATCGTGCC  
ACTGCACTCCAGCCTGGGCGACAGAGCAAGACTCCGTCTCAAAAAAAAAAACATTAAAAAA  
AATGTATTTTCATTTGTGACTCCATCTCAAAAAAAAAATATATTCTTTAAAAAGAGAGAGAGAG  
ACCTGGAGTAGAGATTCTGTCAAAGAACNNNNNNNNNN

&gt;938

NNNNNNNNNNNNCGNGGGTACTTCTAGAATTAATTAATAGATATAATTGATTACTGG  
TCAGAATAGCAAAAAGAACTAGAAAACCTGAACAACACTAAATACCAAGTATACTTCACCAGA  
TATCTATAGAACATTCCACTCAGCAACAGCAGAATCCAGCAGAATATATATTCTTCTGAAGTG  
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AAAGGACTGATATCATACCAAGTATGCTCTCTGACCAGAATGGAATGAAATTAGAAATCAATA  
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CAGTGGGTCAGAAAAGAAATCACAAGGGAACTAGAAAATACTTTGAGCTGAATGAAAATGA  
AAATGTAATATACCAAACTTATTGAATGCAGCTAAAGCAGTGCTTAGATGGAAATTGATAGC  
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AGACTCTAGAAAAAGATCAAACCTAAGTCCAAAACCTTAG

&gt;939

NNNNCTCTTCTCCATACTCTTTAATTGGATATGCCAGTGTGTCTCAGTAATTTCCA  
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GCTTATTAAGTGATCTCTTAGAGGTTTCCAAAGTTATGAGTTTGAGTTTACAAGTGCAAGTTTT  
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ATAATTGCATATAATAAACAGGTTCTTGACTGTTCTTTTTGTCAGTGTTAAGAATAGAGACA  
AAATAAAGTTAGATTTGAGTGCCTCAGAAGATATTAGAAAATAGAGATAAGGTTTTATGGCCTT  
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ACTCCTGTAATCCAGCAGTCTGGGAGGCCAAGGTGGGTGAATCACCTGN

&gt;940

ACTGCCACTTCCATTTTGTAAAGTGAAGCCCAGAGAAGCAAAGAAATGTGCCCTAGGT  
CACATAGCTAGTCGGTGGCAGAGCTGTGATTGGCAGGTTGGTGAATGCCTCCAAAGCCCT  
CGACCTTCCCACTATACTTCACGCATCTCTAGAGAAGAGACAGAAGTAGCCAGGATGAAGGT  
CTTCAGGTTTAAAGAAGAACTATGAAAAGCAAAGATTTTTGTTTTCGTGGTTTTTTTACTATA  
AAGGAAAACCTTTAAATAATAGCAAGAGTGCTATAGGTAAGATATCAGAA

&gt;941

ACCTCGTGGTTGAACTTATTTGGGGACAGAATTGAGACGGAAAAATTTGATATCAAA  
GGAAGATCAAAACCCTTGATGTGGTTAAGAGCATGGATAGTGAACTAACCTCTGATGTAT  
GGTGAGGAGAGCAAAAGAGAAAGGATTGCAAAGAACTGGAATGTAGAGGATGAACATATTG  
GTAATAATAACTGGTGGAAATTGTTATTCAGGAAAAAATAGCAATTATTCCTGTTTCATATCTC  
AAATCATTGTATGTTGTTTATTTAAAGGGAGACATGGTAGAAGATATCAAATATAAAATGTTA  
TCCTTCTGGTTTTCAAATCAAAACCAGGAATAACGCATATCACACACAAAACCTCATCAATGTG  
GCCAATTTTCCATAACATT

&gt;942

ACATGAAAATGGCTGTTTTTCCCCACATTAGTCAGCTCTGGATTTTGCATGTGTGGG  
GCTTTTTTTTGATAGTTATTTGTTTTTATTTTAAAAATTTATTTTGCCAACCCAGTAGAGAAC  
AGCTGAGCATCTTCTCATGTATTTATTGGCCATCTGCATTTCTGCTGCTTATTGGCCATGTAT  
TTATTGGCCATTTGCCGTCTGCTGTGAAATGTCTTAAATTTTTTGCCCATTTTCTAGTGATAA  
AACACTGAAGCACATTTTAAAGACTTCTGATGATTTTTATTGTC

&gt;943

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TACTAAGGAGGGATGTTAAATTAATCCCTAGCTGTAATTGTGCATTAGTTTGTCTCTTTTCAG  
CTGTTCTAGCTCCATAAATTTTGGAGCTGTTAGGTGCATATACGTTTAGGATTATTTGTCTT  
CTTGGTGAAGTAGACCTTTTATCATTAGGAACTGTCCATATAACCA

&gt;944

&gt;945

ACCTGCAAGTCCAAAGAGGACCAGGAGGATCCCCGCCAAAAGAGGGTAATCGATG  
GGACACCAAAGTTATCAGTCAAGTAAGGCAGAAATGCTTGAATGAATAAATGTATATAGATAG



Table 4

AAAGTAGAGACCTTGATAAAGTCAAACCTCCTTGCCCTTTACAAGTGTGTGTTTCAGCAGCCATG  
CAAGGGAGATGCCCATCTGGCAGTGGCCCAGGGCAAGGTGTCAGAGCCCTAGTGGCAGGG  
AGATGGCATCCACATATGAGGGAGGGTGACATGGTGCTAACTGGGCATCTACATAGGGCAG  
GGGGACAGTGGTGATGTGAAATTGATTACATCAGGGTNGACGGAGTACCTGCCCGGGCGG  
CCGGCCACCGCGGTGGA

&gt;946

NNNNNCCCCCCTCGGAAGTCTTCTAGNATTAATTAACGCGGGATCCTGAAGTTGA  
ACTGGTGCAGCAGTAGTATCGTTATGCTTGTTAGCCTTCATAATCCTTCCTAAGCAATAAAAT  
ACCCATGTGGTCGAATCCCAGGACACGTTGAATTACAAGCTCCAAGTTTTTCCGCTGCAGCG  
TATCCAAGTGTGCTTGGAAGAAGAACAATAAATTAACATGCTATTTAGAGCTTTCAGGGCTAA  
CTAGATTTTGATGTTGTCATTGTAGCAAAATAGTTCTAGAGTGTGGAAGAAGTTGAAAATGTTT  
TTATGATACAGAGATTTTATTGTACTGCATATTTAATGAATTATTTTATAAATTGCTGTTGTGA  
AGCATTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCCAGGCTGACTTTTATTGCA  
ACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGAAGCATTTCCTGGGAGG  
TTTCTTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAATTGGAAAATAGAAACAAGT  
ATCTAGAAGAAAAATCACTCATAATTCAGCACCCCTGTTAATACTTTGTCTTTTCTTACAGTTT  
CTAATATGTGCATGCATAGTATATCAATGTGGTTTTACAAAGAGTGTGCAAATTATGATTCTCT  
TTTTACATCATTATGCCATTCTGCATTTTCCACTTAATACTATACTATTGGTACTTTACCAAT  
CCCTTAAGTATTCTCCTACATAGCATTAAAGGTGAAATCTACCACCTCCTATTTTTAATTTT  
ATGTTGTTTTGACTTTTTCAGTATAATAAATCATGTTTTATATGTAAAGGTTTTATCTCCGGTTAT  
TACTGTAGAATAGATTTCTGGGAAGTATAAGAACAGGAGACATAAATATTTTAGGTCATTGA  
TACATAATTTGAAAATGACTCCTAGAAAGATTTAACAATTTGTGTTCTACCAACGGTGTTTGA  
GGGTGTCTTTTTCTCATTGTCTCACCAGTAAATGACAATTGTAATTTGTTTATTGCAAGGCAA  
AAAAAAAAAAAAATTGCAATTTGATATTTAAAGAGATTAACTTTTTCTCAGATTTTTATTGGT  
AATTTGATTTCTTTTTAGTGAAGCTCTTGCTTTTACCCTGGCTACTACCTATGATTGTGTTAT  
GTCCTGGAGGAGAGGGAACCTTGGCTGAGGGGGACNNNNN

&gt;947

ACCAGTAGATGAGAACTACTTATTTAGAGTGGCAGAGCATGCTATAGAAACAAAATA  
TGAGTAATTCTAACTGTAGTTATGTTATATTAGCATAGTGAGATAGTAACATTAATAGAAATCC  
TTAGTGGAATTTCTTAATGCTTCAGTTCAATCTAAATTAGTATTAATACTTTAAGGCAGGAAAT  
CTGTCCGAAAGCATTTGTAAATTTAAAAAGCATTGAAATGAGAAAGCAGAAACAAAAAATATTCT  
ATTTCTATGTATTGCTCTATCTATATTATAAATGATTTACTACCATTAAATTATAAATATTAC  
ATGTTACAGCGTATTGTCTTCTGCAGTTACTGATTTATAAATTTAATAGTAACAGATGTAGCTT  
TATTACTAG

&gt;948

NNNNNCCCCCCTCGGAAGTCTTCTAGNATTAATTAACGCGGGATCCTGAAGTTGA  
ACTGGTGCAGCAGTAGTATCGTTATGCTTGTTAGCCTTCATAATCCTTCCTAAGCAATAAAAT  
ACCCATGTGGTCGAATCCCAGGACACGTTGAATTACAAGCTCCAAGTTTTTCCGCTGCAGCG  
TATCCAAGTGTGCTTGGAAGAAGAACAATAAATTAACATGCTATTTAGAGCTTTCAGGGCTAA  
CTAGATTTTGATGTTGTCATTGTAGCAAAATAGTTCTAGAGTGTGGAAGAAGTTGAAAATGTTT  
TTATGATACAGAGATTTTATTGTACTGCATTTAATGAATTATTTTATAAATTGCTGTTGTGA  
AGCATTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCCAGGCTGACTTTTATTGCA  
ACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGAAGCATTTCCTGGGAGG  
TTTCTTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAATTGGAAAATAGAAACAAGT  
ATCTAGAAGAAAAATCACTCATAATTCAGCACCCCTGTTAATACTTTGTCTTTTCTTACAGTTT  
CTAATATGTGCATGCATAGTATATCAATGTGGTTTTACAAAGAGTGTGCAAATTATGATTCTCT  
TTTTACATCATTATGCCATTCTGCATTTTCCACTTAATACTATACTATTGGTACTTTACCAAT  
CCCTTAAGTATTCTCCTACATAGCATTAAAGGTGAAATCTACCACCTCCTATTTTTAATTTT  
ATGTTGTTTTGACTTTTTCAGTATAATAAATCATGTTTTATATGTAAAGGTTTTATCTCCGGTTAT  
TACTGTAGAATAGATTTCTGGGAAGTATAAGAACAGGAGACATAAATATTTTAGGTCATTGA  
TACATAATTTGAAAATGACTCCTAGAAAGATTTAACAATTTGTGTTCTACCAACGGTGTTTGA  
GGGTGTCTTTTTCTCATTGTCTCACCAGTAAATGACAATTGTAATTTGTTTATTGCAAGGCAA  
AAAAAAAAAAAAATTGCAATTTGATATTTAAAGAGATTAACTTTTTCTCAGATTTTTATTGGT  
AATTTGATTTCTTTTTAGTGAAGCTCTTGCTTTTACCCTGGCTACTACCTATGATTGTGTTAT  
GTCCTGGAGGAGAGGGAACCTTGGCTGAGGGGGACNNNNN

Table 4

&gt;949

ACCAAGAACTAAATTGTGATACGATAGGTGACTTATGAGTAGCACAGAATGTAATAG  
GCCCATCTCTACCTAGTTCTGGTCACCACACTTCTGTCAAGGTAGCTCGGAGAGACGGTGT  
TACTTATTCACCACATCATGAGATCACCTCAAACCTGAGCAGGCAGCCAATGAAAACCGTGAG  
CTTTCTTTACATTAACCTTTCTGAAAGTCATTTTTCTTATTCCACTTTGTGCCTTTTTTAAAAG  
CTGCAGCTTCATGGAATTTAATCCTGGTATTTAAACACTN

&gt;950

ACTTGGTAGGTTGATCTCTTTTCACTTCTCATGGTTTAATTACCATCTATTCACTGATTAC  
TCCCAAACTGTATCTATAGTCCAAGACTGTTTCTAAAAGGTCTGCACCCACATATGCAAATA  
AATACCAGATATCTCTTGGTTATATTGCACATA

&gt;951

ACTCTTAGGAAAGAGTAATGGGGTTGAGGATGGTTAATTTAGCCCATCCTAACTTCT  
GTGAGATTTTTTTCAGAATATTTTGGATGGTTCTCTCACTTTTGTATTAAGCATTTGGGAAGA  
AGATTCTGCAGCCTACTCAGGTGAGCCAATCTCATGGCATTGAACAGAGAAGATATGTTTTCT  
ACGTCTCTAACCAGTGTTTTTCATAGTGAAGTCAGGCCTTTCTCCTTTGATCTAAGTGGAAC  
CAAGAGGTTAGATACTCCCTTTCTTTAGTTATATAATGGGCTTCATGTAAC

&gt;952

ACACTCTGTAGGTCTACAGGTAAAAAGCTATTACGTTGCAAACATTATAACGTAATGT  
AAGGTCTGGATTACATGCCTAAAAATCCAATGATTCTTGAACCATCAAATCTGTTAAGACTG  
AAAAGAATAACCAATGTTTTAAATATATCTATAAAATGCAGGTCAAGGGGCTAAGAAAATTGCAA  
CACTAGAAAACCAACAACTTAGGTTGTTCTAACATACATACACAAATACAGGAGGGACGTTT  
ATGGGTCACATCTGCGAAACATTTTTTCCCAAAAAGCTGAATTTTTAGGCTTGCCTGTAAGTA  
GATATAGAAGAGTGCACTTTTGGGGATCCTCAN

&gt;953

ACCACCAATAATTATGCCACAATTTTATCCTAAATAAGAGTGATTCCCTGTTCCCTTTT  
CCTACAGAACATGTTTCTGTCCGCAAAGAGAATAAGAAAACATGACCCCTCCATCCAGAACC  
AACTAACTCAGGAGTGATTAGAATCACCTGTGGGCATTTTCCCCAAACCACCCATACTC  
TGATAGTTCTGATAAGCGCTCTTAAGAAGCTACAGCTCTTCCCCATTCCCTATCTGAAAGCA  
AGGAACCACTGCTTTGGTCAGGAAACAGGCATACAACATCAGATGTGANNNNNNN

&gt;954

ACCAGATGTTGTAAAATTTACTATAATTAAGGAATTAATTAATGAATGCCAAGGGG  
CAGAGCCACACTTCCTATGATAGTTCCCTTGCTATAAGGTGCTATTTANNGTTCTCTACATTTA  
CTCCATAGTAAGCTGTTGTTTGAGAAAAAAATGCCAGTTTGGTGCGTAGTAGANN

&gt;955

ACCTTTAAGCCAGATTCATGGTATGAAGGCAGCAGCATAGCACCTCCATTGACCCAC  
ATGGGGGGCCTGCCTTGGGCTTCATCAGCCCTTTGGAGTCTCAGATCCCTCACCTGTAAAG  
GAGAGTAATACTACCCACTTACCTTTTTGGGTTGTTGTGAAACACACATAAGACAGTATTAGG  
AGAAGTAAGGTCTGAGGGCTGGGCTTTGGACCCAGCGGCCCTAGGTAGAGGCCTGTTGA  
ATTGGATGACAGTGAACCTTTCAGCATTTCTTAACCTCAGAAGTTCAAGAGCAGGAGCCTGA  
GTGTTTTAGGTCCCTGGTATGGCTGTGGATTTCCAGGCATGCAGCAGCTCTGGGGGCCCTG  
CTTCCTACCCGCCAGTGGTTCCAGCTCTTTGATTAAGTGAAGGGAAATTTTTCN

&gt;956

ACTTCTGCTTTATTCAGTCTAGGTAAGAAATGTAATGGATGTGTGCAGGTGACATAAT  
TTCAGGGGATAAGGTAAAAATTAGATGAAGCCCAAGCAAATATTCTTAAAAAGAAAACTTAG  
GATTTTTTTTACAAAAGTTAACTTAAATGCATTATCTAGAATAATGTTATAAATCAACGTATA  
GAGACGTTAGTGAATAGTTCCCTTCATTAGGATGTTGAAGGAATATGGTTTCAATATTCAACA  
AATGTCGTGATGCCTATAAATTTTTCTACAAACAAGAGTATGN

&gt;957

ACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTGTGTTCTATAAATGTCAATTTAA  
TCCAGTCGGCTTATGATTTTTCAGTTCTATATTCTTACTGATTAATGTGTATATACTAGTTCTGT  
TACTAAGGAGGGATGTTAAATTAATCCCTAGCTGTAATTGTGCATTAGTTTGTCTCTTTTTCAG  
CTGTTCTAGCTCCATAAATTTTGGAGCTGTTAGGTGCATATACGTTTAGGATTATTTGTCTT  
CTTGGTGAAGTACCTTTTATCATTAGGAACTGTCCATATAACCA

&gt;958

ACTCCATAATATAATCTTTTAAATGGGCAACTTCTAAATATTGATACAACCATTAATAA  
TAATGCTTATAGGGTAAAAGAAAAATTTTTGAAGCACTGAATTCAGTAACCTGGGTCATGGTCC

Table 4

AATTTTGCTCACTACTTCATATCTTTTATGTAGATTATTCCTATAAACATGTTCCCTAAATTCCA  
CATCAGTTTGTAAGTCAATGGATTAAATTATTCAAATGTAGCTATTTAACGGTCAGTAACAAT  
GCCTAGAAACCTATTTATTCATCTGTAATATTAAGAGCTGAATTTGATGATCTTGAAAAATCC  
TTCCAGATTTACAACNNNNN

&gt;959

&gt;960

ACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTATCAGCAGAAGA  
TAATATAGACCCCAAGGCTAAAGGGAACCATTTATCATCTCTAGGCCTGAAAGCCTAGGAGAG  
GGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGATATAGCCAACCTTGGTGGCCTAATA  
GAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAAT  
TTAGCCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTGTAGAGAA  
CATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACAGATTGGTATGATTATCTATACT  
TTTCAGATGAGAACACTGAGAGTCAAAATTAAGTAGATTTGCCCAAGGCCATATAGCTGGTA  
GGAGCTATAAATAATTATCTCAAGAAGTCATTATTACGTGGATCATTCAAGAAATTTCTGGATT  
TAGAAAATAGCCTTAAATATGAAACAAATATTAGCATTGTAAATTTGAGATGTTATGTTTAC  
AGATATTGGTAAGATTATCATTTTTAATTTATGTGTTTTAAANNNNNNNNNNN

&gt;961

ACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTATCAGCAGAAGA  
TAATATAGACCCCAAGGCTAAAGGGAACCATTTATCATCTCTAGGCCTGAAAGCCTAGGAGAG  
GGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGATATAGCCAACCTTGGTGGCCTAATA  
GAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAAT  
TTAGCCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTGTAGAGAA  
CATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACAGATTGGTATGATTATCTATACT  
TTTCAGATGAGAACACTGAGAGTCAAAATTAAGTAGATTTGCCCAAGGCCATATAGCTGGTA  
GGAGCTATAAATAATTATCTCAAGAAGTCATTATTACGTGGATCATTCAAGAAATTTCTGGATT  
TAGAAAATAGCCTTAAATATGAAACAAATATTAGCATTGTAAATTTGAGATGTTATGTTTAC  
AGATATTGGTAAGATTATCATTTTTAATTTATGTGTTTTAAANNNNNNNNNNN

&gt;962

ACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAATGATGCATATT  
TTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCAAGCTTGTGCTTCTGGATGGTTGCTT  
TGTCAGTGAACACTTGGATTTGGAAAATACAGCACCTGGGTTGGTTTTGAGAGAAAATGGTT  
TCAACTTTATAATTACAGTTTTAACCACCACAACAACAAATTAGGATGGTAGTGAAATGGAA  
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAATGTCATCCTTTAATAATCTTTAAAGAAG  
AACAACCTAATAACCAATAACAAAATTGAAATAGGTCAAC

&gt;963

ACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAATGATGCATATT  
TTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCAAGCTTGTGCTTCTGGATGGTTGCTT  
TGTCAGTGAACACTTGGATTTGGAAAATACAGCACCTGGGTTGGTTTTGAGAGAAAATGGTT  
TCAACTTTATAATTACAGTTTTAACCACCACAACAACAAATTAGGATGGTAGTGAAATGGAA  
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAATGTCATCCTTTAATAATCTTTAAAGAAG  
AACAACCTAATAACCAATAACAAAATTGAAATAGGTCAAC

&gt;964

CCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTGCCAGCCTCTGAAC  
AGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGCAACTGCTGAATTAC  
CATACAGGGAAGAATGAATTCAAGAAAATCCCATGCAAGATAGGCTCTTAAAAAATAAATTT  
ACACAAGAAAATCAGCACTGTAAGGTAATTGATAAGCCCAATAGAAGGGAAACCTATACAA  
AGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAATAATGATGTTTACAATTCTCTAAG  
AGGAAAAGGAGCATTAGCATCAGTGAAACAAAAGTAGGGCTATAGAAAAACAATACTTATG  
AAAAACCAATTGGAAATTTTAGATGGAAAAGCGTGAAATAAAAAATTCAACACATGGTCTA  
AAGAATAAACTGCACACAGCTGGAGGGAAAATTAATTAATTTACGAAAAACAATTAATCTT  
ACAGAATGGTAAGAGANNNNNN

&gt;965

CCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTGCCAGCCTCTGAAC  
AGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGCAACTGCTGAATTAC  
CATACAGGGAAGAATGAATTCAAGAAAATCCCATGCAAGATAGGCTCTTAAAAAATAAATTT  
ACACAAGAAAATCAGCACTGTAAGGTAATTGATAAGCCCAATAGAAGGGAAACCTATACAA

Table 4

AGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAATAATGATGTTTACAATTCTCTAAG  
AGGAAAAGGAGCATTAGCATCAGTGAACAAAAGTAGGGCTATAGAAAAACAATACTTATG  
AAAAACCAATTGGAAATTTTATAGATGGAAAAGCGTGAAATAAAAAATTCAACACATGGTCTA  
AAGAATAAACTGCACACAGCTGGAGGGAAAATTAATTAATTTACGAAAAACAATTAATCTT  
ACAGAATGGTAAGAGANNNNNN

&gt;966

ACGCGGGTCAAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAAGAAAACTTAA  
AGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCAATGTCTGGTGTCCAGTCAG  
TTACCAGGCATGGAAAGAGACAGAAAAACATGAGCCATCATGAGGAGAACAATTAGCAGAAA  
CCAAACCAGAACTGACATACATACCAGAATTGGCACACAAAAGGATATTAACAATAACAAC  
TGCGTTCCATATGTTCAAAAAGTTAGAAACATGAAAGATACAAAAATAAAATCAAACCTCTAAA  
GATGAGAAACTGTAGTGTTTGAGGTGAAAAATATGCTAAATGGCATT

&gt;967

ACGCGGGTCAAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAAGAAAACTTAA  
AGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCAATGTCTGGTGTCCAGTCAG  
TTACCAGGCATGGAAAGAGACAGAAAAACATGAGCCATCATGAGGAGAACAATTAGCAGAAA  
CCAAACCAGAACTGACATACATACCAGAATTGGCACACAAAAGGATATTAACAATAACAAC  
TGCGTTCCATATGTTCAAAAAGTTAGAAACATGAAAGATACAAAAATAAAATCAAACCTCTAAA  
GATGAGAAACTGTAGTGTTTGAGGTGAAAAATATGCTAAATGGCATT

&gt;968

ACGCGGGCGGTCTGTGCCCCATCACCATTCTAAAGCACCCCTACCCTCATGGCAGT  
GTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGTCAGCTGACGTCTGGCAC  
CGCCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTCGGCCCTCCCTCAATCCTTTCAACTA  
TATTTATTAGTTCTCTTTAATGGAAAGTATATAATCCCTTAATGTCAGACCTTGAGTGGCACTC  
AGCTTTATTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATTCTCAGTAGTCCTGGGAG  
CTGTATTATTTAAACATCTTGACAATGTTTATAGTTCTGCGNN

&gt;969

ACGCGGGCGGTCTGTGCCCCATCACCATTCTAAAGCACCCCTACCCTCATGGCAGT  
GTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGTCAGCTGACGTCTGGCAC  
CGCCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTCGGCCCTCCCTCAATCCTTTCAACTA  
TATTTATTAGTTCTCTTTAATGGAAAGTATATAATCCCTTAATGTCAGACCTTGAGTGGCACTC  
AGCTTTATTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATTCTCAGTAGTCCTGGGAG  
CTGTATTATTTAAACATCTTGACAATGTTTATAGTTCTGCGNN

&gt;970

&gt;971

ACCAAGATTATGATAGCCTCTTAAACAAATTGGAGGTTATAACCTTTTTCTATTCTCT  
GCAACAGTGGATATAGGATTGGAGTTATTTTTCTTAAGTTTTGGTAGAACTAGCCAGTG  
AAGTCATGTGGGTTTGGATTTTCTTTGTAGGAAGGTTCCCTAATTACTAATTAGCTTTCAAAAT  
AGTTATGAGAATATTCAGGTTTTCTATTTCTTCCTGTGTCAATTTTGTGTCTTTTTCTATAAT  
TTGTTTCATCTATAATTTAATATTTTGGTATAATTTTTCAAAATAATCTTGATTATTTACA  
AGACAGGATCTTAATGTTAATGACAGGATCTACAGTGT

&gt;972

NNNNAAGGAAATTTTTTCCCCCAAGGGGGGGGGGCCAATTGGAAATTTTGGGGGC  
AAAAAATAACCCCTTTTAAATGGTTTTAGCCCTAGGGGAAAATTTTTAAAAAAAAGTTTTTA  
GGGGAAAAATAGGGTCAAAATTTGGGGATTTGGGGTAAAAAAAATTTTTTATTGACAGAT  
TGAGACCCTGGCTCAAAAATTTTTTATTATGAGNNNGANGAAGGAAAAGAAAAGAAAAG  
AAAAACAAGAAATTAGCTCATGAATAGCCAGCCTTATATTATAATTATGTGACACTTTGGATA  
TTTCAAAGCACATTCACAAAGGGTATGTCACCTAAATACCTCAAAATTTCCCTGTTATACATGC  
AGATCATTCCCCATTAGCCCTGGTATGGAAGTGAAGTGTACCTGCCCGGGCGGGCGGCT  
CGAAAGGGCCGAATTCAGCACACTGGGCGGCCGTTACTAGNN

&gt;973

NNNNAAGGAAATTTTTTCCCCCAAGGGGGGGGGGCCAATTGGAAATTTTGGGGGC  
AAAAAATAACCCCTTTTAAATGGTTTTAGCCCTAGGGGAAAATTTTTAAAAAAAAGTTTTTA  
GGGGAAAAATAGGGTCAAAATTTGGGGATTTGGGGTAAAAAAAATTTTTTATTGACAGAT  
TGAGACCCTGGCTCAAAAATTTTTTATTATGAGNNNGANGAAGGAAAAGAAAAGAAAAG  
AAAAACAAGAAATTAGCTCATGAATAGCCAGCCTTATATTATAATTATGTGACACTTTGGATA

Table 4

TTTCAAAGCACATTACAAAAGGGTATGTCACTTAAATACCTCAAAATTTCCCTGTTATACATGC  
AGATCATTCCCCATTCCAGCCCTGGTATGGACTGAACTGTGTACCTGCCCGGGCGGGCCGCT  
CGAAAGGGCCGAATTCAGCACACTGGGCGGCCGTTACTAGNN

&gt;974

&gt;975

&gt;976

ACCTCTCATTGTGCACTTTTCAACACTTCCTGGCAGGCAGGCAGCATAACTGGTCCT  
GCTGGGTGATCCAGACCACACTCTGCAACTCTTTCTTCTGAGCCAGGCTCCCCTACTGTCTT  
TTCATTTATGTCAAGGCAGGGGAAGACCTCAAAGGGCTCTTGCATCCCAGTCTCACTTCCCA  
GAGAGGCACGAGGCCCTCCAGGATGTGGGGACAGGAACCTTGGGGCAAGCCGGGGCTGT  
CCAGAAGATCACAGGAGGGCTAAATAGTAGAAAGGAGAGTCTTATTGGTGATATGTTTGC  
AACTGGGAAAAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAGAGGGCAAGG  
GCAGCTTGGATTTTGTGCCTTACAGGGTCGGTATTATATAATAGAGTCATGCATATTCAGTAG  
GTTTGGGGGAAAAGCTATATATATTTATGAGGGGAGCCAACTACATGGGCAATGGATAAACA  
TACATGTAACACATCCCATTGTTCACTTAGGGGCAGGATTTTAGCATTAAATGAGGTGGAATT  
TGGCTCTTTACATCAAAAGGTGAGCTATCAGACACAAAGGCAGTTTGTGCACAAGCTCTCCA  
AAGGGACTTGAGGGCTACAGCTGCTCATCTGGAAAGAATCCTTGTAAGACCAGTCCCTCTGTC  
CAACCAGAGTTAGGAGGCATCTGACAATTTGCCTGATTAGCTGT

&gt;977

ACTTTAAAAAGTAAACAAATTTAACTGAAGCATGGCTATTAGTTAGTGATTCTTTGTA  
GATTTTCTGGAAAGTCTTGTTTGTGTTGATTAAACATTAACTCTGCTGTATGCTGTAAATACAC  
TGCTAAGATCAATATTGAAAAACGAACAATAATACCAATTCATATGGACCTTCAAATTAGTCTT  
ATAAAATTTTATGATATGGTATTATCCAGCCAACCTGACTTTGAGACTGACAAAATATTCTAACT  
TTAACCAGGTGATTCTTGCATTCTTTGGTTTAAACCTCAAGTTTAAAAATATCINN

&gt;978

ACGACTTCACAACACCAACCACAGGTCTCAAGGTCAAAAAATGAGCTAGGAGTAAAG  
TATCTGCTCCAGAATCTACCCCATCCCAGAAAGAGCAACCCAACTGTGTCCTGAGTGGCTC  
TTAGAGTTTAAGACTCTGAATGAATGCCTAAATTTAGAAAGGGTGTGGACCAAGGGATTTTG  
GTTAATGTTCTCTAAAGCAGGCTGACTGCCAGGATTTCAAGTCAGTGATAAATTTTAAATTTT  
ATTATTTTTTTTCCCCCGCGTANN

&gt;979

ACCTGGCAGCAGAGTAGGCACTAATATGTGTTGAATGAGTAGGTGAAATAAACAAAA  
ACCTAATGGCGATGGAATTTTATGGAAATAAGTAAACTTCATTATTGCTGAAAAATACCGCAGA  
TAAATAGAGGGAGGCAGTGTAATAGAGTGGAAAGAGCAGTAGACCAGGAGTCAGACAGTCG  
AGGATCTCATTCTAAATTTGAAGGTGAATAGCCATGTGGCTTTAGACAGGACTCTGAACCAC  
CTTGTTTTCTTATCTGTAAAAGGGGGAAGTCATAATAGCTACTCCTGCCTAACTCATAGGTTG  
TTGAGAAAATGAAGTGN

&gt;980

ACATTACCTTTTATGTATGCTGGAATAAGAACTTGTGTCTACATGCATGTAGAAACAA  
TGGAAGGATAGGCAAGAAAATGAAAAAATGATAACCTATGGGGAGTGATGGCCACTAGA  
TGAATGGGGACAGGGGCTGGTGAGTGAGCGCAATTATCTATTTAAACAATCAGAAATGCTCC  
CTAAATTACAAGTTTCTAGTTAAATGCAGTAAGAAATTTCCCAACAAGCTCTGCAAAATAAGTT  
CTGTCAATCAAATCTTACATGATGCATTAACCTGAGCTATTTTAAATACTACCATGAATTCATC  
TTTAAAGTGTGACTTTGTAAAGCAGATAATCCTCCTGTTTTTCATACATTGCGTTTCTAAAGT  
TGATTACACTACACAAAGAATACAATATTAAGGACCATTCAAATTAATTAATTTTGTTCCTA  
ATTAAGGTTAAATCAATGTGTATTACCAACTCAAGAAGATAAAGACCGACNN

&gt;981

CCTTTGTTTATCTTTGCAGTTTGGTGGTTTTCTGTAATGATAACATGTGGTTCATTCT  
CTTTCTTATTTGTGTGCTGCTTTACCAATGAGTTTTATACTTTTGGGTTTTTCATGATGGTGAA  
TATAGCCCTTTTGCTTCCAGATGTAGGACTCTCTTAAGCATTTATTGTAGGGTCAGTCTAGTG  
ATAATAAATTCATCAGTTTTTGTCTATCTAGGAAAGACTTTATTTCTCCTGCATTTCTCAAGG  
AGATCTGTGCTGGGTACAGTATTGTTGACTGGCTAACAGAGGACCAATTAATAAGCCAAAGA  
AATGGCTCTTTAAACAATGAACATTTCTGCCATCAACTGACAGATCCCAGGAATAAATGTTTT  
CAGTGAGGAGACTTCTCTGGTTTTTCAGAACACCTCTGGCTGCCCTGCCACCCCATAGAA  
GGGCTATCCCTCCAGGTGAGGTAGCATCATCACCTAGAGCCAACAAGTCAAGGAGGTGAT  
GGTTTGCCTTTGACATCTCTACCCAGACCAGACTCCACTGAGAAGACTCTCCCTTTTTTCATCA

Table 4

CTGCCCTACCTAGTTAGTTGGTCCTGCCCTGGGGCCAGAGTTTCACTAGGGGGCTGAATAGT  
ATACTGTTAGCTCAGGCAACAGATGAACCTCGCTCCATGCGCAAATACAAAAGCTATCTC  
TGCTTCTTTTCACTCACTTAAGATTTTGAAGAATGGCTCCTAAAGCGGGTGATCATCTGCC  
CTCACGACCTACAGTGCCTCAGCATCACATGCTATTCTTTGCACAGCAAAACCAGGAAGT  
GAATATGACTGTTATCCCTACTTCACAAGTAGAGAACTCTGAGGCCCTGAGAGGTTAAGAGG  
TGCAGGTAAGATTTGAACCTACGGGCTGTGTGCGGTGGCTTATGCCTGTAATCCCTGCACTC  
TGGGATTACAGGCGTGGGCCACCACACCCGGCCTACTGCCTACCATTTTGCCCAAGCTTCC  
CAGTACTAGAAGAACCC

&gt;982

ACTTAGATCAGATGGATTGAAACATGACAGCCCCATTTCTCTGGCCGGTTAAGGTC  
CTCATGGAATGAAAAACACTTTCGGGCACTCTCCTATGAGAGAGAGAATGGGTTTCTTTAATT  
GCCAGATTGTCTGAACACAGCCTCAGCTACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTT  
GCCAGTTGAGTGATTCTTGGGGAATAAAGCAATTCAGTGCCAGCTCTCTAAAGTGTTGA  
TTCTGGATTCTGGTAGAAGCCAGTAAAGAAACGTTTCTCTGGAGTGGAAGCTAGTAAGATT  
TATTCTGTGGTGATGAAGCCATCTGAAACCTTACAAGCAGTGTTGGTTGTATCAGCATATGGG  
AGCTGACTGCCTCAGGACTTTGGAAGCCTGCTTCTCTGTGCCTCAGCCGGAAGCTCAGGTTA  
CTCAGTAGTCATTTGCTAATTTCTGAGAACGCAACACTCCTGAAGGGATAGAAAGCATGAAC  
AATACCCAAACTTTTTAGACTAGTACTGTGTGTCAGGTATTGTAACTTATTGAGTCCCTGA  
AATGTACAACTAGTTATTGCTCCCCCTTTTCTTTTCTTTTAACTCAGAAGTTAAGTTA  
GTGGCTTGCCCTGGGTACATAGCTTGTAATGCCGAGCTAGCATTTGAAN

&gt;983

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&gt;984

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&gt;985

&gt;986

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&gt;987

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&gt;988

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Table 4

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Table 4

&gt;1000

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&gt;1001

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&gt;1002

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&gt;1003

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&gt;1005

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Table 4

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&gt;1006

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&gt;1007

&gt;1008

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&gt;1009

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&gt;1010

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&gt;1011

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&gt;1012

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Table 4

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Table 4

&gt;1019

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&gt;1020

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&gt;1021

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&gt;1022

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&gt;1023

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&gt;1024

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AAGTATGCACATGCAAAATAGAACTTGGGAAAAAAATCTTTGATTTGGCCCTCTACCAAGTGG  
ATCAGTGTGTCAGAGTTCAGTTGAGCAAAGGTCAGAGTTTAAAGTTGAATCTCCAGTCACTCTT  
TTGAAGATATTTGGTGATGCCAAATTTAATTTAGGATATTATGTAGGTAAGTATTCTGTCAGTT  
CATTTATAGTGTGAATTTACAGGATTTAGCCTTAGTCCGAGAAAACTGGCCCTGGCCCGAG  
ACTATACACCAGGCAGTTCTAAACATATACAATTCATGTTAAGGAAAAACAGATTTACAACCT  
ACATTACTCCTAAATAACATTTATTTCCATGTGACTTGATGTCTAAATAAAATGAATTTGGCT

Table 4

TAGTAAGGCTTTTCAATTTATCTTCATCTAAACGCTTTTCCACCAGTACTCATCACAAGACTCCC  
CAAGGTTATGAAGCAGATTGATATAGAACTCCATTTCTAGGACAAAAACGAGGCACCTTGA  
GAATGGACCCAAGCCATAATAAACTAGTAATGCATTTTCCACACAACCATATAAAATACAGT  
GAGCCCTTGATCAACCTTTGCACAAAAAGAATTGCTCATTAAGTCTTTGATTTTTAAAAAATG  
GCACTTGGTTTTCTAGAAAGAGGATCTGCACACTAACTATTCGATTTGTTGAATATAGTCAG  
ATTATTATGTCTGTGTTTATTAGGCTTAATTTGAAAAGATTTTGGTTAGTATCTCCACTTCTAT  
GATCAAACACTATAGAGTTCAAGACCAGCCTGGGCAACATAGTGAGANNNN

&gt;1025

ACTTGTTTTCTCCCCTTCGGACCACTCTCCCCACTAGACAGCTGTATGGCCGGCTCC  
CTCACTCTCCTCAGGTCTATCAGAGGGTGGCCACTGACCTCATTGTCTCAAACATTATATAG  
AACACACACGCACCCATGCACGCACACCGTCGTTCTTCATCCGCCTGGTTCCGTGCACATT  
CCAGGACCTACAGCAGTGCCTAGAACACAGAACATCCATTAGCAACATTTGTTTAATGAATTT  
ATAGTGCCTAAACCTGCACAACTCTGACTTTGCCTTGCTATTAGAAAATGCAAGGCCAGGCG  
CGGTGGCTCACACCTGTAATCCCAGCACTTTGAGAGGCCGAGGTGGGCGGATCACTTGAG  
GTCAGGAGTTCAAGACAAGCCTGGCCAACATGGCGAAACCTATTCTTTACTAAAAATACAAA  
ATAACCTAGGGCTGATGGCATGTGCCTATAAN

&gt;1026

NNNNCGANAGTCTTCTAGNATTAATTAACCTAGTTGAAAGTGTCTGAAACTTGCCAG  
ACTCAAAGTGTAGAGCACAAACAGCAACTGTGCTTGACCGTACTCCTTGGTTTACATCTATTGT  
CTTGACAAAAATATTAATAGCATTTTCTTTCACTTTTAGAAATACTCGAGTTTGTATGATAAATT  
TTAGGTTCACTTTACCCTCATGCTATAAATTGGTGGTGTCTGGTTGGACTTGGTGAATCAGG  
AGATTGTATAATCAACAATTACCCAAAGCAGAGATTCTGATTTAGTAGGCCAAGGGTGGCCT  
ACTAAATGTGCATTTTAAAGAAGGCATGTCTAAGGATTCAAGTAGTAGTGTGAGAAGCAGTAC  
TCTGTTTCTGGTACTGAGGCTAATGGTCTTAGTTGGGATAAGGAGAGTGGGGAAGGGGCAG  
GGGGAGATGATGAAATTCATTTATCCTCTGTGATGCTATGGAAGAACAAATTAAGATCATGTTT  
CCTACTTGATTTTAGTTGCTAGTCATTTCTAATCTAAGCACCCCTATAATTTACCTATGTCA  
TCATGCAAAATCACCATCGGTAATAATGTGGGGCGGGGGAAGTCTATACAAGAATATTAAG  
GCCCTGTGCGTGAGCATGTCTATAGTTAAAGACTTAATGAGAAAGCATCAAATTTGGTGCA  
AACAGCTGAAAGTAGAAGTAAATCACACGTAATAAGATGCAACTTTGGAGGAGCTCAAAGC  
AACAGATACGTTTTTATCCAAAAGGAGTAAACAAAAAATCGTCAACGGCAGTTCCCTTCAG  
ATAATCAACTGATGATTTTCAATTTGAAAACCATAAATTAAGTACGTTGTTTGAAAATAACTTTTT  
TCCATTTATACTTTTAAATGTTTATTAATTAATTTCTCTATAGATATGCAGATAAGATGTTT  
AAATGTGTAAGTGGTATAAATGTCCCATGTGTCTTTATTCTAGAGCATAAGAAAAGATGGGA  
AGCTACCTCAAACCTGTTTTGAGGCAAATGTAGTATGAATCCCTAAACATAACACCAGTACTG  
CTAAATGACAGTTATCTAATCTCACTGATGAACAAGAATANNNNNNN

&gt;1027

ACTAATTCCTTTCTCTTTCTAGACCGATTCTAGTTTGTTGCCTTCCCTTCCCTCGG  
AAACCCCAAGTTTGTGGATGCTGCAGACACTCTGTGCCCCCTGCATGCTGGGTGCCTGGC  
CAGCTGCCAGGGCATAAAGACAGAGACGATGTGGCCTTTGTCTTAAGAATGAGGTTTGAA  
GCCCCAGTTCTCCATGTTAGGTGATTTCTTGACGCTCTTGGTATCTGCAGAATTAGTGTGAA  
TGCTTAAAAAATATTAACAGCTTTATATCATGAAAGTTTTAACATGN

&gt;1028

&gt;1029

NNNNAAACATTTNAGACTCACTGTGTAGCCTTCTTGAATCGGGAATTCGCTTAATG  
CTGTCCGTGAAAAAATAGCCTTTAACATCTGTTTGATTGAGATTTGTGATACATAGAAGTTGG  
GAGGAAGATGTGGAAAGCCCTAAGAGAGCTACTTGCCAACCCCAACATCAGGTCTGCCTCA  
GTGTTCTAGTCAGGACAGACGAGGCCGAGTCTGATATTAGATAGTCTTTGAATGCAACATA  
AACAGACCACAGGGACTGGTATGTAGCAAATGGTCAATATATAATGTACATAGGAANNNN

&gt;1030

ACTTTGACCTGTATGTAACTCTAGTTACTTTGGTCTTCTCAGGCTCTTGACTCTTTC  
ACAATTAAGTAGTCTTTGAGGCTCAGCCTGCTTCTCATAGCTATGCTATGGCCTGGACA  
CTCAGGGGAGTATAAGCTGAGGCAAACATGGACTCATTTGTTTTCTAACTTTCAGGGATTATT  
GTCCATCATTGCCTGATGTCCAGTGTCTTGAAGCAATT

&gt;1031

ACCATTGTTTTGTTCAAAATCACAATTTAAATACTTCGTGATTTTAGAAATAATGGAGC  
CACGTTTTACCATTAAGGTGAGTGATTGTTGAGATACATTTGGCACTGTCCATAGGTTTATG

### Table 4

**>1032**

**>1033**

**>1034**

**>1035**

**>1036**

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Table 4

CAGCAGACCCTCGTGCCTGCCGGCCAGGTGCGCGTCTGCAGGAGGCCAACTATGCCTTCC  
TGAAGAGCCCTCTCCACCTGCAAGGTGCCAGGACTGGGCAGGGAAAGTCCACGGGGCCCC  
ACGAACGGACCACGCCCTGCGACATCACCCGCCGGGCCAGCCTGCCTCCTGGCCTCAG  
GCTCCCTGGGCCAGGACACTGAGTGAAGAAAGAAAGAACGAAACAGCAACGAGACC  
CGCAGCACACCAGACCACACCTGGCCACCAGGCAACCCAGCACAAACCAACAATGACACT  
CAAAGCAGCAACCTGCGACCAGCGACAGTGAACACCAGAAAGATCAAGGACCAGACACCAG  
CAAACATGTAAAGAGAATCCGTGTGAACGGAACAACAACAAAACAATAGAACAACACAACAG  
ACACACAAAGCGACAACAGCAGACCGACTGAAACACCCGGCGTAAGCAAGCAGCAAGACTG  
ACCCGGTATCTATAGAAAGAGAGAGTCAGTCGCTACATCACAAATCACTAATGAGGACAC  
GCGCAGCAGCAGCCACACAGCGAAAACGAACGACCAAGACACAGCAGACCCGCGAGCGAT  
AGCAGCGCACAGCACAGACATCACAGCAGCCCCTACGCGGCCCGAGAACCCGAACAGGAG  
AGACGAGCACCCCTGCCAGACGAAATGAACGAGCAGCCAGAAAGAGGGCGAGGAGCGACCG  
AGGAAACAAAGGCGCAGAGGGGAAGAAGAN

&gt;1037

ACCATTAACTGAGTGAAAGCTTTACAATTGAGGGGTTACTCATTAGCAGGACCTGG  
GTTTTGTTTTAATCTCATTAAACCCCTTGTTACCCATTTGATAACAAAGACTTCAAGGAAGAAT  
TTGCTCAAAAATCTCTGGGAGACAGTAATAGCTTCTTGGGCCTGACTGATAAACTTTTTGCCT  
CCAGCAATGGAATGTGGGAAAATTCCAGATGCTAAATGATCTGGCTTGGACCCAGCAGGTT  
GAGGTAGTGGAGCCTTCGATTGAGGCACAGCCCAGGACTGCTGCAAGGGAGAGGACACAA  
CAGATA

&gt;1038

ACTTTGACTATTTTTAGCAACAAATTACTTTTGACACACAGCACAATTGATTTAACAC  
TTCCAATTTTGAAGTATTGGATAAATAATGATGGGATTTAAATAAGCAATCCGATTCTACTA  
TTACAGCATAGGGTCTCTTGTAGTCCTCTTAGTAAAACTATTGTGACACTTCTTCTTTCTCC  
AAATATTCGGCCTGGAAAGACCTAAATACAATGCAGGGATTGAATCAAATTCACACATTTTT  
TTCCTACGGAAACAACAACCTTTCTTGCTTATATTTAACAAAACTAGTATAGATTCCCTTTAT  
ATTAATAGTTATATGGTATTTTTTCTCAGAGTAGAAATCAGGTTTATAGGCTAAGAATATAGG  
CTAATTTGGAGCATAACACTAACCAGCATGAACCTAAGTGAGTACN

&gt;1039

ACTTAGATCAGATGGATTGAAACATGACAGCCCCATTTCTCTGGCCGGTTAAGGTC  
CTCATGGAATGAAAAACACTTTTCGGGCACTCTCCTATGAGAGAGAGAATGGGTTTCTTTAATT  
GCCAGATTGTCTGAACACAGCCTCAGCTACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTT  
GCCAGTTGAGTGATTCTTGGGGAAAAAATTAGCATTCAAGTGCCAGCTCTCTAAAGTGTGGA  
TTCTGGATTCTGGTAGAAGCCAGTAAAGAAACGTTTCTCTGGAGTGGAAGCTAGTAAGATT  
TATTCTGTGGTGATGAAGCCATCTGAAACCTTACAAGCAGTGTTGGTTGTATCAGCATATGGG  
AGCTGACTGCCTCAGGACTTTGGAAGCCTGCTTCTCTGTGCCTCAGCCGGAAGTCAAGTTA  
CTCAGTAGTCATTTGCTAATTTCTGAGAACGCAACACTCCTGAAGGGATAGAAAGCATGAAC  
AATACCCAAACTTTTTAGACTAGTACTGTGTGTCAGGTATTGTAACATTCATTCAAGTCCCTGA  
AATGTACAAACTAGTTATTGCTCCCCTTTTTCAATTTGAGGATACTGATGCCAGATAAGATAA  
GTGGCTTGCCCTGGGTCACATAGCTTGTAATGCCGAGCTAGCATTTGAAN

&gt;1040

ACTCTTATCAACTGTTTTATAGATGAGAAAACATTAGCCACAGCTTAGCTTATTTGAA  
GTCACAATAATATTAAGTAAGAGCAAAAGCCAAGATTCAAATGTAGATTATTTTACTACA  
GACTGAGAAACGAATTAACTAGGAGCCTAAGATACTTTCTGGAATTGAAATGATACATTATA  
TATACCTATAAAGATAATTGGCTATAGCTTCTTAACTACAAATTGTCATAAAAATGACTTCTG  
TCCTATATCAATTAGAACTGGTATTAATGAGTATTATAAGACAATAGAATGN

&gt;1041

NNNACTGCAGGGCCCAAGAGCATACAAAGCTAGTTATTTGGATCCAAAGTTGGTCAA  
GTGTGCAGTGTTTAGACATCATGATCTAGGCAACAGAATTCCTGGCCTGAAATATGTCAC  
AGTTAGAAACATTAGAAGCTTTTCAGGTAATAATAAATAAAAAACCAGTCAACCGTATTCTTATT  
TCTTCGTCAGAGAAATCATGTGTCGTTTGGTTTAACTTCTGCTGGATTCTGGATGGGAGTTGT  
TGAACATATTAATCTCATTATTTCTGTAGAGGACAGGTTGTCCCCCCTTCTCATTAGCGC  
CCTGACTGCTTGTTAGGGCTCTCTGCCTCTGGCCCTGTGACCAGCACGGTTGCTCCAGCAG  
GCAGCAGTGCGTGGGCCTGCTCTCATGGCAGAGACAGGGCTGTGAAGCTTGGGT

&gt;1042

ACCTGCTTTGATTATTTCCGAATCCAGTGGGTAGAGAAGGTAAAGGCAAGGGCTC

Table 4

ACTGGATATTTTTAAATTGTAGGGATGTCCTTTGCTCTGGGTCAATTTTAGGATCAAATATAAA  
AGCACCTATAGCTCAGAGTATCTTCTAACATAAACTTCTGAGATACCAGAAATTTTCCAAAA  
CATGGTATAAACAGTATGAAACACTGGGTAGATAAAAGCTTTCTCTAAATCTTAAAGTGCTCA  
AATATCATGACCTGATTTTTAGTTTTAGAAATCAGATATTTTTCTATTCCATATCTTAACTTT  
CATGTTAAATTCTAGTTCTGACAATGTAGGGTTCTATTTTTTTCAGGTGATTGTTGGGAGCGT  
ATAGAAGCATATATAAATATGGAATATGTGTTTCTTTTTCCCCTTCTGAAAGAAAGTCAAGCC  
TCTAATCAAATAGATTGATGCTTCAGAACTTAAACAGAATATTATCTGCAATTTGGCATAAATG  
CATNTTCTTGGGGAAGTTTCCATGGTCAAAATTATTAGTCATTGCAAAACAGAAAGTTTGA  
CAACTGGAAANN

&gt;1043

ACCCGTTTGTCCATGGCTATTCCAAATACCCCATGTTTATTTAAAATGTATATATAAT  
CAGTTACATAAAAAGAGGTATGCTTAAATTCTCATGACTCTATGGTTGGACCTCTGTGGTTGG  
AGCAGGCAATAGAAATGTCTGTAATTCATTTAAAAAAAAGTGACTTTCCTACCTTTAGATA  
GTGAGGACAATCTGTTAACTCTTTGTGTTGATAAAAGCAAACATTTCAAGGACCGGTGAAAG  
AAATCTCTACCATGTATAAGGTTATATATATACCAGAAGCAGTGAGTTAGGACCAAATTAAG  
ATTTGAC

&gt;1044

&gt;1045

NNCGTCCGGTTCTGACCTATTCCAAGAGTACAGCCATCAACAGTTAGTCCCAAGAGT  
TGGAGGCATTGTTGGGGAAGAGATTGCAATAGACTGGTGCAGATCAGTTACCTGAAGCTC  
CTGCCATTATCTGAGGCCTGGTGATGCTGCTGTGTGCCCAGAAGCCAGTCATATGGATGTCTT  
GACCTGTCCAGCACACACCTCAGTAGTAGGAGATATGGGTCTTTGGAATGCTTTATGTGTGA  
TGAGGATGAAACAGTTAAGTGCTACTTCTCATCCTCGGCCTTATGACATTAGTTAGTTGTGT  
AAGATTTTGCAGGGAGGTATTCCTCCTCTACCTTTTCGTCACAAGCCCCTCTCATTCTCT  
GAAAAGGTTCCATACTCCAGTCCCTACCCTCAAAGAAAGATTTTACTAAGCAAAAGTATCTAT  
GGCTCTCTCTGTTCTCCTTGCTTTAGCTAGCACAGCTAAACTGGGATCTCACCAGTCTGACA  
GGGCAACCTCCAAGATTCACAACCCAGGAAAAGTACTGCTTTGCGTAAGTTTAAATCAAGACC  
AGAGCAGAGACAGGACACAAAGTCAAAGAAGTCAAGTCAGCAGC

&gt;1046

ACAGCACTTTCAAAGTAGTGGAATATAAATCTTTCCATTTAACAGCAACATTCAAATA  
TTTCCCATTCTGCTTATTATTCCTCTCTGAAGGTGATACATAGAAATATAGGAGCAAACACAG  
CAATGCAGGCGCTCTATGATCTGGTTTGCTCACATAGATCTTAAAGGAGAAGAATGAGGGA  
TTTGCTCTCAACCCACAGCCAATCTATGTGGACACAAAGGGTGACTTCTTCTTCTATTACGT  
TCTTGAGGTAGAAATGGTAACTAGCATGACCTCGAATCATAATTTAATATCATTCTAN

&gt;1047

ACATTATTGGTAGTATCTCAGAATCCTGCTTAGCTTTTGAAGATAAACCAAGTCATGAT  
ATTTTGGGTAATATGGCCATAGGTATCATGCAAGATTGAACTGCCAGTATTTGCCTTTTCA  
ATATTTACTTTGTAAGAACCTGACACTGTAGGTCTCACCACACCAAAACCTGCAACATAAAC  
TTCAATTTTGGGCAACTCATAGACCAAAAAAGCTAAACAAAACAAAAAGGAAAAAACCTCTA  
TATACAATCACCCTGCTTGTCTACATTTAATTTGCTTCATTCAANAATAAGCAGTCACN

&gt;1048

&gt;1049

GGGGACATTTAGTTTCGGGCATGAAAAAGAAGTTAACAAGCAAAGGTACCTATAAACA  
AAGGCATCATAAATAGATATAAAGCCAGAAGAAAAGGGATCTAAAGTAGACAGAGAAGATAG  
GCTGACTCTCCAGTTGCAGATTTTCATTATCAGCTCATCACACCACCGAACTCTCTGGTGAT  
TTGCTATCCACATCCATGGCGTTTGGTGGCCCTAAAGATTGTAACGGCCCCCATCCTCTTGG  
TTAAATGGCAGGTGTGTTGACAAGAACTGTCTTAGGTACCCCTGCCTGCTGGGCATCACA  
TTCTTCTTGGTATATATTAAGAAACACAAGTTTGGGCCAGGCACGATGGCTCATGCCTGTAA  
TCCAGCACTTGGGGAGGCTGAGACAGTGGATCATTGGCGGTGAGGAGTGCAAGACCAGC  
CTGGCCAACATGGCAAAANNN

&gt;1050

&gt;1051

ACCCATCTCTTCCATTCTGGGAATCTGGGAACTAAGCCTGTAACTTGTAGCTTGT  
GAATGAATGATGGAGTAGAATAAATAAGAAAGGAATATATCATTAAATGCACAGGTTAAATA  
ATAAAATCTATTAATAAAGAGCCTAAAGAAAGAAAGATGACATTTGAGCACATATTGGGTGA  
AATAAGTTGTTAGTCCAGCACTTCTCAATTTTAGTGGATATGTGAATTGCCTATTAATGC



Table 4

AAATTTTAAATTAGTTAATCTGGGTTGGACCTGAGTCTGCGTTTCCAACAAGCTCCCAGGTGA  
TGTC AATGCTATTGGTCCAAAGACTATGTTTTGTGTAGCAAGGGTTCTAGATACAATTACATT  
AGAAAAGATCAGAGAAAAGTGGAGTGATTGT

&gt;1052

ACGCGGGTATAGCTATATACTCATATTTTTATTTTTATGTAAAATTTCCAAAATGCTTA  
ATATGGCAGTATAATAATTATACTAGATTTACTTCAAACATAGACATAAAGAAGATTACATG  
CCTGTAGAAGTTCATTGAATTAGGAATCACATGCTATTTATTTTAGCAGATATCTTCTTAATTA  
AATGTTTGACCCATGTGAAGTCATTTAACAGATCTGTTACGCATTATTCACATATGCAAAATAA  
TCTATATGATCTGAATACCATTTCCATCTTTAAATTACATATTCCT

&gt;1053

ACAATCAAAAAAGACAAAAAAGAAATGGTGTTAAAAGCCACAGTAAACATAAACCTC  
ATATCAAGTATAAAACACACACACTTTGCTCTTCATCCGGACAATGCCAAAATTATACTGA  
GGTATTGGGGTGGGCTGATACCTTCAAACAGGGAGAGAGGGACCATGTTCAGGAGGTGTAT  
TCCTCGATTTAGGTGGTGAATTTTTTTTTTAAAGACAGGGTCTCACTCTGTCAACCAGG  
CTGGAATGCAGTGACGTGATCTCGGCTCACTGCAGCATCAACCTCCTGGGCTCAAGCGATC  
CTCCACCTCANN

&gt;1054

ACAATGAAAATTACAAAATACTGTTGAGAGAAATTAAGAAGACAAATAAATGAAAAG  
AGACGGAACATGTTTTCGCTTGTAAACTCAGTAGGATTAAGATCTCTTCTCTCCACGACTC  
TATAGCTTTAAAGCAATCAAAATCAGACTGGTTTTGTCTGAACGTTTTGAATAAGTCAATGG  
CTTATTTCAAATTCATATGAAATTTCAAATGCCAAAGAATAGGCAAAATATTTAGAAAAGAA  
GAAAGATTGAGGATTTGCAATAACTGACTTCAAACCTCACTAGAN

&gt;1055

NNNNNCAGGCTAGAGAGATGTTGGAAATAGTTGTTAAATTGGCTTAACTTTCTCAGG  
ACACCTTGTAACCCACCACGTTTCATGTCTCCTCTAGCCAATAAAGTTATTAAACACAAGAAC  
CCTGTCTTATTCATCACAGTATCACCCACAGGGGCTGAGACAGTGCTTACACAGAAATGGCC  
CTTGATAAAATATGGGCTGAATGAATGAACATATGAATTTGACACTTTGAGAACTAAATTA  
GTTATTTCTACTAGCATTTTTAACACAAGAACTATTGAGATTACTTATATATTAGTAGTAAATG  
TTTGCTTTATTCATTTGATTGGCAAACTTATAATGAACTCAGTGAACTTGTCCACCTTTTTCT  
ACATGTTGAAATTTTCAAAAATCCATAAGATTACTCCTCACACACACCTCCAAGTATCCATA  
GAGATGGACCTACTTCATACCATTATATTCATAATCCAATTATTTCTAGAAATCCCATTGATT  
CAGGGAAGTGAATTTGATAGCCAGGAGGCATTCCACTGGCTTCTTAAAGCN

&gt;1056

ACATTAACCTCACTGACTTACTCTGGGTTGCTATTGTATTAAAATTCTGTATAGACATTA  
CGTAGCCCTCAGAGTTGAATTTGGACTGCCCTTAAATAAAAAATTCTTAAATCTTTAGTGTGG  
TGTCTATTAATTTTTATGATGATTTACAAGTTGGAAATGATTACTTTGCAAGTCATAGTTTACTT  
TGAAGTTAATAAGAGTGATTACAGTAAAGGAAAAATGCCATATATGGCATTGTTCTTAACAGC  
TTATGAAATTTGGAAAACGATATTTTAGAAAGCTTTCTCTTGTGGCTGGAATGAAGN

&gt;1057

ACAGCTTGTTCCAGGATATTTCTTCTATTTTTCTTTGAGTTCTTGTTTATATTCTAGTT  
AATTTCTAGTAGTTCTTAATGTATTTTAAACCAATAGACTTTTGTCTTCTTCTGCTTATGTATTC  
CTCGTAAATGCTTTTTGTGACTTGTCTAAGTATAAACAACCTTACTATTAGCTGTAAATTTTCT  
ATTTTATGATGTCATCAATCTTTTTTGTGTTAGTATGATTAAATGTTTTTCACTTGAAAGA  
TATGAATAGTCTACTTCATTGATTTTTTTAAAGTCATTTTATTTTTATTTTTGTAGCTACAAAA  
TCAN

&gt;1058

&gt;1059

ACTTTAACAAATTA AAAACAAATTTTAAATTTAAATATTTTAGAAATTTTACTTAATACA  
TTTATTTAATGAAGGGCTGCTTTTAAAGAAAACCTTTAAATCCTCACGTAAACCACCACCTG  
CAAAGTATTAATATTCAACTTTTTCAACAAAATGCCTGCTATGTATAAGCTACTGAAAGAAGAC  
AAAAATTAATAAAATGTGTCCCTCCTCTTAGATATCTATAATCTAGGAAAATGAACACATTCTT  
TTCAGACACTAACTCCATAAGAACAGGCATCAGATCTATCTTATTTACCACCACATCCTGAG  
AATGGAGCACAGTGCCTGACACATAATAGATGCTCATAATAGATGCTCAGGGTTTATAGTCA  
GTGAATAAGTAAAGAAATGAGTGAGCAAATATCTCTTAAAAAGAACAGACTTTTAAAGTTAAC  
AAGCAGTGATGTGTTATTCAGTAGCAAATAAGATTGTTTCCTAATGTCATAATTCAATTNTCCC  
TGCTTCCTACTATGACTAGATGTTGGTTGGTGATAGTTTATATGANN



Table 4

&gt;1060

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGTTACCAAACCCATCCAACTAAAAAT  
TTAAGCTTTTTGCATTTTAGTGGATGCAAATTGTGTCTTAGTAAGAAGACATACAAAACTAA  
GAAAGATAATGTTGAAGAAAATAACAAAGCTTAAGGACTTAACTATTACCATCAAGACATGT  
ATAACTACAGTAATTTTAAAACTGTTTTCTTGATAAGTATAGAGAAATGTACCTCGGCCGC  
GACCAC

&gt;1061

ACTTACGCTTTATGATCTTGAATATTTTCAGTGTTTAAGGAATCTCTTCCTTCTTTGAT  
CTCCACTGCATGNAAGAACTCTGTTGCAGGTGTTAACAAGGAAGTTTGAAATAGAAAGCCAG  
AACCTGCCCCCAAAGATCTGACAGTAGTAGAAGGAGATCCATTATTAAGAAGGTATAATGG  
CAACANAAGAATAATCACAAATTATCTGTGTGTGTAATATGTGTTGTGTGGTGTGGGTCAAGG  
AGATGAGGAAAGTGGTTAGGGAAN

&gt;1062

ACTTTAACAAATTA AAAACAAATTTTAATTTAAAATATTTTAGAAATTTTACTTAATACA  
TTTATTTAATGAAGGGCTGCTTTTAAGAAAACCTTAAATCCTCACGTAAACCACCACCACCTG  
CAAAGTATTAATATTTCAACTTTTTCAACAAAATGCCTGCTATGTATAAGCTACTGAAAGAAGAC  
AAAAATTAATAAAATGTGTCCCTCCTCTTAGATATCTATAATCTAGGAAAATGAACACATTCTT  
TTCAGACACTAACTCCATAAGAACAGGCATCAGATCTATCTTATTTACCACCACATCCTGAG  
AATGGAGCACAGTGCCTGACACATAATAGATGCTCATAATAGATGCTCAGGGTTTATAGTCA  
GTGAATAAGTAAAGAAATGAGTGAGCAAATATCTCTTAAAAAGAACAGACTTTTAAAGTTAAC  
AAGCAGTGATGTGTTATTCAGTAGCAAATAAGATTGTTTCTAATGTCATAATTCAATTNTCCC  
TGCTTCCTACTATGACTAGATGTTGGTTGGTGATAGTTTATATGANNN

&gt;1063

&gt;1064

ACTTACTACAAGCAGCAAAAGGAAGCTCTAGAACAAGGAATTAAACACAGTGTTTGT  
TTCCAATCGCAGAAGAGGCCATGAGCACCATATGTGTGTCAGGCTTATCATCTGAACCAAAG  
AAAGGCCAATCCTTCACCTTTCTTATGACTCTTATAGGCTGCAATATTTCACTTGCCATAAA  
CAACTTAATATCTCACACCTAGTAGTATTCAGTGACACAGAAAGGGAAAGAGAAAGGATGAA  
GAACAGAGGAAAGAGAAATAATTTCCAAGATACAAATTAATATTCTTCCAAGCATAAGA  
GCAATTA AAAAATANNNNNNN

&gt;1065

&gt;1066

ACCCACATGATCCCAAAGAGGAGGGGCCCTGTATAACAAGAACCAACCAACATAA  
AGCAGTGACTACAGGCACCATGACAACAAAAGGAGTTTTAAAGTGCATCTTCAAATAGCACA  
CAATTTTCCAATTTAAATAGTTTGAATGAATCAAAGGGAAAAAGCATTAAATAGATACAACT  
GAATTTCTCAAAAGTATATTAACACAGCCTACAAATAAATCCTCAAATGTACCN

&gt;1067

ACCCTCCGTGACTTTTCAGGGTCTCCTGGTTGAATGAATTTGCAGAAGGATTAAAAT  
GTGTGTTCTTATTTGTGCCTTTGATTTCTCCATTAAGTAGTGTGTTGGAGGCTTATTAGAAT  
AAGCTGAGAAGGGTAATAACATAAACACATACCGTAGGCAGCCCTGACATTAAACACATNAG  
GTAGGAGCCNNN

&gt;1068

ACTATATTAGTGTAGCAATTTTCCAAAAGCCATTCTCTTAGAGGGCTAAATGATTTT  
ACCTTATCAATTCCCCTGTGAAAAAATATCTCTAAAGAGGTTTTCTGCTGGAAAAATATTGTTG  
CTGTCACATTGATATGCCAACAAAAGCTAAGCAGGGAAAGTCAGGCCAAGAAATATCTCCCTG  
CAAGAGAAGGCATCGCACATGTATCTCTCCATGCTATTTAAAATTGCATTCTGCAACATAGAA  
AGGATAGGCCATGCTGCAGAAGCCAGGTCCAGGAAAACCTGCTTTCTTTGGCCTTTACACACT  
CCTTTTGGAGAGATGCTGGTGAAAGCAGCAACTACCATCTGCCTTCTGTTGACTTAGTGTC  
GCAGGTGGAGGGAGGAAGGAGGGCATCGCAGACATCATTCTATTATCTCAACCTTGCTTTCT  
CGGATCCAAAGGCCAAGAAGTTGCTGCTCCATGCCCTCAGAGCTCTAATTTGGCACTCTTC  
CTGAAATGAGAGCTTGAAAGGGCTTCTGCTCTGGGTGAAACCGGCTCGTGGCCCGGGCCAA  
TTCTGCTGGCTTCGCGTCTGTCAAGTGTCTCTAATCACTGTTATAAGTGTGGTTCTGCGGAA  
CATCTTGTA AAAATATTTTCTATTGCTCCAGCAACATCTCCTGTCTAGACAATCTAATTATGAA  
CACAGAGCAATAGCTGAAGTGTATGCCGCCCCCAAGGGTTGCATAACTCCAGGAATGGGG  
CTAGGAAGACAGGGGAGGGAGGTGTGTGTGATGTTTATTACTTTTTTGTGACCTGACCAGA  
AAATTGAGTGCTCCAAAAGAATCTGGCTAACTTTAATTAAGAAGAAATGATCTGGTGGAAGC

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Table 4

&gt;1076

ACTTCACTGATTTATGGCAAGTCAGCCAATCCATCAGTGCTCAAAGCTCCTTGATT  
GTCAGGAATGTCTAACATTATTTGTCACTCATTGAGAAATTAAGTAAATGAGATGGGACACAAATCTG  
TTTTGTGTCTGATAGATTCTTCATGCAGAAAGAATAAGTAAATGAGATGGGACACAAATCTG  
AGTATAGCATTGTCATTACTTTTTGCTGCACAGATTACTTGCAAGAAATATTCTAGTCTGGGG  
CATAACAGAATCCACAAATTCAGATTTAAGAAATAGGTCTATATAAAGCTTATTTAATATTG  
GTATANNNNNNN

&gt;1077

ACAGAGTAACCATGACTTACTAGGTGTTATGATGAAGGTGTATGTGTGTGTATATGT  
GTGCATGCATGTNATAAGTGTGTGCATTTGCACACATAAGAGTTTTAAGCTGCTCCTGTCATT  
TATTGATGGTCAAAGGTTTTCTTTGGCTATTGCTGGACTCTTAAGATTGCTTGTAAATTGTCTT  
TTTGTGTTGTTGAAAATTAAGGGTGTATATTAAGGTAGTTTTTACCCAGATCTTATATGTGT  
GATAGCTCACGTCTGTAATCAGAAACCTACTGTTAATGGCCACCCAATTGCCATTAGCTTCC  
TAGAGGGTGATTTAATAAACTATCTTCTTTAAACTCATTAAAAATTAGAGACATGTTGCATA  
CAATGGATTAATGACGTTTTACACTAACCCACAAAAGTCTGCTGCACTTTCTTTGTAGGCC  
TAACATTCAATTCATATGCATTGAATATTATTGGTGAACCTGCATTAATTAN

&gt;1078

NNNNNNNNNNNNNNNNNGCATTGATATGAATAGTTTCACTAATTCCATTCATGGTTA  
CTGTAAACATTCTTAAACTTTGTTTTATGGGATTATCAGAGTAACAAAATAATGTAGTCCCTT  
TATGGACTATAAGTAACCTAATGCTTTTCTTCCCTATTTTATATCCCCATATTTGGTGCAATA  
ATTTAATTCATTACTTCAATATTTGTTTTGCATTGATTTTACACCTACATTTACACTATTAAC  
TTATTTGTACATACTTAAATGGTTTCAGTGTGAAAAAGCAGCTTCTGACCTAGCATTACACT  
AGGCGGTGGCGTTCTCCTGCTGAACATTTAACAATTCTCAAATCTCTAACATCAGATGAGGT  
CACTGTAATCCGGATAAAATGAGATACTGTAATCATGCCTGAGCACAGATAAAAAACAAAGTCA  
CTGTGCAAACCATAAACAGCCAACCTCTTCTGTGGCTAACATGGGTGACTGTTGCTTCTTTC  
CTTTCCTCCCACCCACAACANNNNN

&gt;1079

&gt;1080

&gt;1081

ACACGATGTGGCTGACATTTGGCTGGAGTCTGCTAAGATGTCTTCTTATGCTGGATG  
GACGCAGACCTGTAAACACCTCTGTTTTTATCTTCTCCACCATATTTTTTATCAGCCGCCTCA  
TTGTTTTTCTTTCTGGATTTTATATGGCAGCTGATCTTGCCTATGTATCACCTCGAGCCTTT  
CTTTTCATACATCTTCTCAACCTACAGCTCATGATCTTGCAGGTCTTCACTGATGGGG  
TTATTACATCTTGAAGATGCTCAACAGATGTATATTATGAAGAGCATCCAGGATGTGAGGAG  
TGATGACGAGGATTATGAAGAGGAAGAGGAAGAGGAAGAAGAGGGTACCAAAGGCAAA  
GAGATGGATTGTTTAAAGAACGGCCTCGGGGCTGAGAGGCACCTCATTCCCATATGGCCAG  
CATGGCCATTAGCTGGAAGCCTACAGGACTCCCATGGCACAGCATGCTGCAAGTACTGTTG  
GCAGCCTGGCTTCCAGGCCCCACACCGACCCACATTTCTGCCCTTCCCTCTTTCTCACCAC  
CGCCTTCCCTCCCACCTAAGATGTGTTTACCAAATGTTGTTAACTTGTGTTAAATGTTAAAT  
ATAAGCATGCCCATGGATTTTACTGCAGTTAGGACTCAGACTGGTCAAAGATTTCAAAGAN  
NNNNNNNNNNNN

&gt;1082

CCACGCGTCCGGGGGCGCGGCCCGGGGATCCTCTCGCGCCCGCGGGCTCCAAT  
CGCTGGTCCTCACGCAATCCTAAACGGTTCCCGGGCGAACCAGGGGCGCGCGCCAAG  
GCCGCCGAGACCCTCAGGGGCGTGCGGGCCTTTGGTCCCCGCGGGACCCTGTGGGGGGC  
CTGGGCGGCGGCGCCCCGACCCAGCCAGCGGACGGGCGGGGGGGGAACCGGGAGGT  
CCCGGGGGGCGTCCACGGGGGTGTCCCCGGGGGTCTCCGGAAGGCGCGGCGGAGGCT  
CCCGCGCTGCGCTTGAAAATCGCGCGCGGCCCGCGGCCAGCCTGGGTAGGGGCAAGGC  
GCAGCCAATGGGAAGGGTGGGAGGCATGGCACAGCCAATGGGAAGGGCCGGGGCACCAA  
AGCCAATGGGAAGGGCGGGAGCGCGCGGGGAGATTTAAAGGCTGCTGGAGTGAG  
GGGTGCCCCGTGCACCCTGTCCAGCCGTCTGTCTGCTGCTCGCTCTGCTTCTGCTGC  
GCCTCCACTATGCTCTCCCTCCGTGTCCCGCTCGCGCCCATCACGGACCCGCAGCAGCTGC  
AGCTCTCGCCGCTGAAGGGGCTCAGCTTGGTGCACAAGGAGAACACGCCGCCGGCCCTGA  
GCGGGACCCGCGTCTGGCCAGCAAGACCGCGAGGAGGATCTTCCAGGAGCCACGGAG  
CCGAAAACCTAAAGCAGCTGCCCGGGCGTGGAGGATGAGCCGCTGCTGAGAGAAAACCC  
CGCCGCTTGTCTATCTTCCCATCGAGTACCATGATATCTGGCAGATGTATAAGAAGGCAGA

Table 4

GGCTTCCTTTTGGACCGCCGAGGAGGTGGACCTCTCCAAGGACATTGAGCACTGGGAATCC  
CTGAAACCCGAGGAGAGATATTTATATCCCATGTTCTGGCTTTCTTGCAGCAAGCGATGG  
CATAGTAAATGAAAACCTTGGTGGAGCGATTAGCCAAGAAGTTCAGATTACAGAAGCCCGCT  
GTTTCTATGGCTTCCAAATTGCCATGGAAAACATACATTCTGAAATGTATAGTCTTCTTATTGA  
CACTTACATAAAAGATCCCAAAGAAAGGGAATTTCTCTCAATGCCATTGAAACGATGCCTTG  
TGCAAGAAGAAGGCAGACTGGGCCTTGCGCTGGATTGGGGACAAAGAGGCTACCTATGGT  
GAACGTGTTGTAGCCTTTGCTGCAGTGGAAAGGCATTTTCTTTCCGGTTCTTTTGCCTCGATA  
TTCTGGCTCAAGAAACGAGGACTGATGCCTGGCCTCACATTTTCTAATGAACCTATTAGCAG  
AGATGAGGGTTTACACTGTGATTTTGCTTGCTGATGTTCAAACACCTGGTACACAAACCATC  
GGAGGAGAGAGTAAGAGAAATAATTATCAATGCTGTTCCGATAGAACAGGAGTTCCTCACTG  
AGGCCTTGCCTGTGAAGCTCATTGGGATGAATTGCACTCTAATGAAGCAATACATTGAGTTT  
GTGGCAGACAGACTTATGCTGGAACCTGGGTTTTAGCAAGGTTTTTCAGAGTAGAGAACCATT  
TGACTTTATGGAGAATATTTCACTGGAAGGAAAGACTAACTTCTTGAGAAGAGAGTAGGCG  
AGTATCAGAGGATGGGAGTGATGTCAAGTCCAACAGAGAATTCTTTACCTTGGATGCTGAC  
TTCTAAATGAACCTGAAGATGTGCCCTTACTTGGCTGATTTTTTTTTTCCATCTCATAAGAAAA  
TCAGCTGAAGTGTTACCAACTAGCCACACCATGAATTGTCCGTAATGTTTATTAAACGCATCT  
TAAAACTGTGTAGCTACCTCACAACCAGTCTGTCTGTTTATAGTGCTGGTAGTATCACCTT  
TTGCCAGAAGGCCTGGCTGGCTGTGACTTACCATAGCAGTGACAATGGCAGTCTTGGCTTTA  
AAGTGAGGGGTGACCCTTTAGTGAGCTTAGCCACAGCGGGATTAAACAGTCTTTAACCCAGCA  
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GTGACTAAAGTAAGTTAAACTTGTGTAGACTAAGCATGTAATTTTAAAGTTTTATTTAATGAA  
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CCCCCTCTGAGTAGAGTGTTGTGGGATAAAGGAATCTCTCAGGGCAAGGAGCTTCTTAAGTT  
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TTCTCACTGTATTTTCTCAACGTCTGGTTGATGAGAAAAAATTCTGAAGAGTTTTCATATGT  
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GTTTGGTGTAAGTAGTTGTGTGAGTTAATTCATTTATTTTACTATGTCTGTTAAATCAGAAA  
TTTTTTATTATCTATGTTCTTCTAGATTTTACCTGTAGTTCATACTTCAGTCACCCAGTGTCTTA  
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AGCTGTTAATACAGTTTCCATTCAAATATTAATTTAGAAATGAAACATAATTTTTTTTTTTTTT  
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AACCTCCATCTCCTGGGTTCAAGCAATTCTCCTGTCTCAGCCTCCCTAGTAGCTGGGACTGC  
AGGTATGTGCTACCACACCTGGCTAATTTTTGTATTTTGTAGAGATGGAGTTTACCATAT  
TGGTCAGGCTGGTCTTGAACCTCTGACCTCAGGTGTTCCACCCACCTCGGCCCCCAAAGTG  
CTGGGATTGCCGGGTGTTAACAATTTCTTATAGGGGACCTGAATTAACCTGCCTTTTTTGGG  
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&gt;1083

&gt;1084

NCCGAGGAATTTTTTTTTTTTTTTTGCATGACTAACAATTCATTCAATGTGTGTGTA  
CTGCTATGTGTCCTCATGCATGAGCTATGTCAACAAGGACAATCTACTGATAAGAGAAAATG  
AAAATGTACAAGTTGTAGGAGACTAAACATGGTTTTAACTTAGTACACATTTTCTGAAATGTC  
CCCCGTGATTAAGTTGTGAACAAATGAACATGCCACATGTCAACAACTGAACAAACATGGA  
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TCTCCTGTGTCCCACTGGCTACAAAAATACAACCACTGGGTAGGTAGGGCTCATCTAGAA  
CCAGAATTAGGAATAAGGATTGAGAAGAAAACCTCAGCAAGGGTGATGAATGAGTTTCAGCTC  
ATTGCTGGAGTTAGCTGAAGAATGAATAGGACACAGTGGATGAAGGAACAAGCTATTCCGG  
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&gt;1085

NNNACATTATCCACATTTAACACCTTTTTCAGTTGATGGCTGATTATCTGATTTTGCAA  
ATGGTGCCTCACTGTGGGGATCCCCCTCCTCTATTCTCAGATGTGGTGATGGTCCCCCTCGTTT  
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>1086

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNGGAGACAGGGTCTCGCTCTATCACCTAG  
ACTGGAGTGCCTGGTGAATCTCGGCTCACTGCAACCTTCACACCCCAGGCTCAAGTGTCA

Table 4

ATCCTCCCGCCTGAGTAGCTGGAACACACGTGCGCACCACTAAACCCAGCTGTTTAATACA  
CCATTTTTAACCCAAAACATTAAGAAAAATATAGGAACAGTAAGTAGATTACATTTTGTAACA  
GACAAGCTTACAAGTTTTCTCAAATATGAAAGTCATACTAACTGGGAGACTGTTAACTTCTT  
GATGGGGTTAATCTCTAATATGAAGCCACAGTCATAGCTAACTACAAATTACATATACAATGC  
CAAAAATATTCAAAAATAACATTTTTTGCACCTTAATGATTACAAATGCTAACCAGCATAAAGA  
CACTGGAAAGTTTCAGAATCTCCTCATCACATACTTCAAATATCTTCCCTTTACN

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NNCACGAGGATTCTTCCTTCTTTTGGTCGGTTCTGAGTGTGGGGTGTCTACTGGG  
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AGTCTACAGGCGAAGATACACCACCCACCGGTAGAGTCGCTGGACCAGAATATTAGGTGTT  
CCAGTCAAAGTCACCCAGATTTGCCAAAAGACCTGGCACAAATGTCACTTCCACTATGAAGT  
CCCCTGACTTCCATATACAAGACAATCTGCTGGGAATTTCTTGGGTTGACAGCTCTTGGAT  
CCCTATTTTGAACAGTGGTAGTGTCTGCTGATTACTTTTCAGAAAGAAGTAATCCTTTTTATGA  
CAGAACATGTAATAATGAAGTGGTCAAATGCAGAGGCTAACATTAGAACACTTGAATCAGAT  
GGTTGGAATCGAGTACATCCTTTTGCATGCTCAAGAGCCCATTTCTTTCATCATTGCGAAGCA  
ACAGCGGCAGTCCCCTGCCCAAGTTATCCCCTAGCTGATTGCTATATCATTGCTGGAGTGA  
TCTATCAGGCACAGACTTGGGATCAGTTATAAACTCTAGAGTGGTAAGTGTCTTCACATTCT  
TTAAGCACTAAAGAAAACCTTTTAATTAGCTACCTTGGCTTCCAGTAATCAAACCTAGAGCTCCTCT  
GCCTTGTGTAAGTTGCTATAAAGTATTGACTATTAGAATGTCTTGAACCTTGGTTACTGTGAG  
CCAAGTCGGTGCTCAAAGTATATTTCATAGTCTCAATTATATAGTAATTTAGGTTCTGAAAAAT  
AGGTTCTGTCTTTGCATATGTAATATTTTGTGAGTATTTACTTTGGAAAGTTTGGTCGACCTAA  
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TTGATGAAGCTATGTCATACTGGTCGATATCAT

&gt;1089

NNGAGTCGACCCACGCGTCCGCTTGTCTATTTCAAGTTTGAGTAGGCTGAGGAAGA  
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CTAACAAGAAAGGAATGTAAGTTTACTCTAGCATATGATAAACAGGCAGTCTGAGATTTTACA  
GAGCTTATTTTCTGAGGAGTTCATTGTATTACATCATTTTCACTTTTGCCTTTTGTCTTTACATAG  
TAGATAGGGATATGTACCTCCCTTCGCCATCATGTAAGTAACTGAGGAATTGTTATTG  
TGCTACAAAACCTGAGAACAGATGAAGATTCTGTAATGAATACTTAGATCATCTATTTTTTGTG  
ACATTTTGCCTAGATGATGTGAAATTATAACTATTGATTCTGTTGAAAGAGANNNNNNNNNNNN  
NNNN

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TATAGGGAGTCGACCCACGCGTCCGGACAGCACAGACAGATTGACCTATTGGGGTG  
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CTGTGCTACGGCCTGTGGCTGGACTGCCTGCTGCTGCCCAACTGGCTGGCAAGATGAAGCT  
CTCCCTGGTGGCCGCGATGCTGCTGCTGCTCAGCGCGGCGCGGGCCGAGGAGGAGGACA  
AGAAGGAGGACGTGGGCACGGTGGTGGCATCGACCTGGGGACCACCTACTCCTGCGTCG  
GCGTGTTCAAGAACGGCCGCGTGGAGATCATGCCAACGATCAGGGCAACCGCATCACGC  
CGTCCTATGTCGCCTTCACTCCTGAAGGGGAACGTCTGATTGGCGATGCCGCCAAGAACCA  
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Table 4

TCTCAGCATCAAGCAAGAATTGAAATTGAGTCCTTCTATGAAGGAGAAGACTTTTCTGAGACC  
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 CCAGAAAGTGTTGGAAGATTCTGATTTGAAGAAGTCTGATATTGATGAAATTGTTCTTGTTGG  
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 aaccaataccagtgacataaaccacagcatgcacagacatagatagaagtcagtggtgciagcatgtccaggaatggatgtcat  
 cattcatgggtgcatcaaaagcatcaccaggtgcacactggataatagcgttgatagtaggtaccctccaccacctaggatactcga  
 cacactgggtgcgagaagagcagctcacctgaccccaacaccagcagtcacaaacgggacaccccaagctggaagcacataaac  
 aaagaaaacgacatccaggactccaccacacctacacggactctccggactcccatccacgcgcaaacctggataaaccaccta  
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 acacaacgcgacaactccggcacacgactacacaccacagcagccgccaactaaccgcaacgccccacccagggcacaca  
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 accaacacgcaaacacctccccaccacacccacaacaacaacgaactccagggccagggatagacactagcacaccacac  
 gtgaaccgcacacacacacacacaccccaaaacggcgactggcgacataacccggcagcgccgacgcagcagcagcgaac  
 ccgcacggcgagatcagcaaacacacacagaccacgcggcagcagcgcgcggcagcctccacgacaacaccacagc  
 cagcgaccagaccacagccatacagccccctacacagccaacccgccccctgacgcgacacgcaagcaacaacaagcgaca  
 ggctgaacagccccgcaacgcaccagccccctgacgcgaccacggaccaacacaggggcatgcaccagtagcaccgagaca  
 actggacagcgccacgcaccacggcagtagacatccacggacgca

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NNNNNNGTAGAGACAGGGTGTCACTATATTGCTCATGCTGGTCAAATATTATTTGTA  
 ATCATCTTTCATCTAAAGAATGAATTAATTTACTGAAAGCAAATAATGGAACCTATATGGCT  
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 CCCAGACTTCGCCATAACTTTTCAAGTTAATTACACCTGCTACTGTTTCACTTAGGGGGCACTT  
 TGCTTAACCTGTAATACACAGAAGGGGTTGAGAAGACAAAACACTGTTAACTTCATTATACCT  
 TTGACAAAAGTAATATTATGTGACATGATGTGTTTCTCAAATATTAGAGCTGCAGATTTAGC  
 TGATTTCAATTTATGGGCAATTTGTTATGTGATCTTAACAATTTGACATATAATCTGAAAACGAG  
 CTTTATGATCAAAAATTGATTTTATATATATACATATAAATCTATATGGCTGGGAGCTATGGCT  
 CACGCCTATAATGCCAGCACTTTGGGAGGCTGAGGCACAAGGATCGCTTGAGCTCAGGAGT  
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 NNNNNNNNNNNNNNNNNNNNNNN

&gt;1095

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 TGTCGTTTGCGGTCTCGCGCAGGGCGGCCCGGTTCTGGTGTGTTGGCGTCGGAATTAACA  
 ACCACCATGTGAGCAAAAAGGCAAAGACCAAGACCACCAAGAAATGCCCTCAGCGTGCAA  
 CATCCAATGTGTTTGCCATGTTTGACCAGTCACAGATTGAGGAGTTCAAAGAGGCCTTCAAC  
 ATGATTGATCAGAACAGAGATGGCTTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCT  
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 GGATTTCTCCCTAGAGAAGCAAGCATATCATGCAAACTTCTTGTGCGATGAAGCCATCTCT  
 GTTCTGATCAATCATGTTGAAGGCCTCTTTGAACTCCTGAATCTGTGACTGGTCAAACATGG  
 CAAACACATTGGATGTTGCACGCTGAGGGCGCTTCTTGGTGGTCTTGGTCTTTGCCTTTTGT  
 CTCGACATGGTGGTGTGTTAATTTCTGGCCAAGCACTGTTATGAAGGCATAGGGCTTCTCA



Table 4

AAGAGAAAGTCTCCAAAGTTGATTTCTTACTCTGACAAAGACTGTCCCCATTTAATCCTCACA  
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CATCAGTAAACATGATATCTACTTCAATGCAAAGAACTAATTGAGATAACATATGTAAAAAGA  
CTAGtcagttcAAAAAAGCgg

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caTttaacTTttattaCTTTTTAAAAATCCAAATTCagaTAAATTaacacACTAGGTTAGAACCT  
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GATATCCAACCTCTTTGAACCAGACGTCTGCACCCTTTTTCTGATATACTGAGGACACTCGGT  
CTCTAGCAATTTCTTCAGGTCATCCCTGTAGACGGCATGGAAATCCCCTTTATCAGGGAGT  
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ctttgocagttggcg  
taaata

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AATTGGACTTTACACCATGGCTCACAATCCTAATATGACCCATTTGAAGATTAATCTGCCAGT  
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TGTGATTTACATCAAGACTTGGTGAAGTGTTCACATTGATCATCCAGAGTCTACAACGTGG  
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Table 4

TTTGAATCATTGGGAATACTTCATTGCTCCATCAGTAGATATACAAGAACAGGTTTATCGTGT  
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CACAGAAATGGAGAGTGGAAATATATAGTGGTCAAAAGAAGATTAAGACAGTTTGGCAACTG  
AGTGACAGCTCACCCATAGACCATCTGAATTTTACAAAACCTGATTTTTCGGAATTAACACTA  
AACGGTAGCCTGGAAGAAAGGATATTCTTTACTAACATGGTTACCTGCAGCCAGGTGCATTT  
CAAGTGAAGTGTGCTGATGAAGTCTCTATAAGCACAATGGGAGGCGGGAGGCGGCCAGC  
CTGGTTCATCAGCATCCAGTCTCTAGTGTGCCACCTAATGGACGCTTAATAATCTCTGGA  
TACTTGGAATTTCTGAGATGCATTTGTGGCCAGTCTCCAGCATGCACACAGGACTTGGATTA  
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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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&gt;1129

&gt;1130

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&gt;1132

&gt;1133

&gt;1134

&gt;1135

&gt;1136

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Table 4

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TCTTTTGGGCTGGGAATTCATCAGGAAGTGGTCTGTAGGAACCTATTCTCGGGCTTCCCAT  
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Table 4

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&gt;1148

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&gt;1150

&gt;1151

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&gt;1153

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NNNN

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Table 4

AAGTCGACGCGGCCGCGAATTTAGTAGTATCACATTTGGCCCAAACCTCAGGATTCTCCCTC  
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ACTTTTCTGTCTTCTAATTTTTAAATTATTAATGCTTCTATTTTTCTAAGGCTGATT  
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Table 4

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### Table 4

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Table 4

GGGTTATGCTTATCCCCAATGGAGGTATGACATATAATCTTTTCTGCCTTTACTTATCAATTC  
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Table 4

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 CTCCTATTAATATTCTAAAAGCTAGGATTCAATTGAGCAGTTTCTATAACATTTTAGAACCCA  
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### Table 4

**>1186**

**>1187**

**>1188**

**>1189**

**>1190**

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Table 4

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GGATTAGTCATTCTGTCTTTACACCTGTGGTGAATAATTCAAAGGAAAAGCCCTATCATTTT  
GCCAGCTGGTGTAAAGAGTTGCTTTGTTTTCTGTGAAACCAGGTGTACTGCATTAGAAAAGT  
TTATTCAACTTTTAATCATTAAAGCATTGTGATAAATTGTAACTTAGAAATTGTTTGGTTTACTG  
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TGAGTTCAAGAGTTCAAGACCAGTCTGGGCAACATGGTAGGACCCCATCTCTACAAAAAGGA  
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GAGGTTTACTTGAGCCCAAGGTTGAGGCTGTGATGAGCCATGATCGTTTCATTGCACTCT  
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&gt;1191

&gt;1192

&gt;1193

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCATTCAAGAAAGATAATTTACACTT  
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&gt;1199

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&gt;1200

&gt;1201

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Table 4

CAAGTTTAAATGCTTATAACCCAAGGCTCAGCAATATTCTAGTTAATACTCTAGAGGAATGCT  
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&gt;1206

&gt;1207

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ANNNNN

&gt;1208

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&gt;1210

&gt;1211

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Table 4

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&gt;1213

&gt;1214

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&gt;1215

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Table 4

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>1224  
>1225  
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>1226  
>1227  
>1228



Table 4

&gt;1229

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&gt;1230

&gt;1231

ACTCCATAATATAATCTTTTAAATGGGCAACTTCTAAATATTGATACAACCATTAAATA  
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AATTTTGCTCACTACTTCATATCTTTTATGTAGATTATTCCTATAAACATGTTCCCTAAATTCCA  
CATCAGTTTGTAAGTCAATGGATTAAATTATTCAAATGTAGCTATTTAACGGTCAGTAACAAT  
GCCTAGAAACCTATTTATTATCTGTAAATATTAAGCTGAATTTGATGATCTTGAAAAATCC  
TTTCCAGATTACAACNNNN

&gt;1232

&gt;1233

ACTCCATAATATAATCTTTTAAATGGGCAACTTCTAAATATTGATACAACCATTAAATA  
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CATCAGTTTGTAAGTCAATGGATTAAATTATTCAAATGTAGCTATTTAACGGTCAGTAACAAT  
GCCTAGAAACCTATTTATTATCTGTAAATATTAAGCTGAATTTGATGATCTTGAAAAATCC  
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&gt;1234

&gt;1235

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&gt;1236

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&gt;1237

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Table 4

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ATGTATCTTAAATTTTACATAGCAACAGAAAGGCCTACAATTGCTAACACAAGAAAAATACTT  
ATAAATCAGTATAAATCAATGCAGATGTTAGCAAAAGAATGAGACTACTTCATATGTCCTA  
ATTGAAAAAGTCTCAAATACTTAAAAAAACAAAAAAGTGAACAGTTTATTATACTACCATT

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Table 4

AACCTCTCTTCCCTCAACGGAGAGCTGCATTCTGGAATTTCTGTTGTGCACTTTTCCCACT  
TGCCCTGCTGTCAATTTAAAGGTGAACATTCTAGTTTTGCTAAGAAAACCCCTTTCCTTCATTTG  
GAATGAACAGCAATTTTATTACTTTTGACCTTAAATGAGTTTGCTGCCTTCAAATCTTTTCAG  
CGCCTTCATCACGCTCTGCTTCGGGGCGATCTTCTTCTGCCAGACTCCTCCAAGCTGCTCA  
GCGGGGTCTGTTCCACTCCAGCCCCGCTTGCAGCCGGCCGCCGACCACAAGCCCGGGC  
CCGGGGCGCGCGCCGAGGACGCGGCCGAGGGGCGAGCCCGCGCCGCGAGGAGGGGG  
CACCCGGGGACCCGGAGGCCGCCCTGGAGGACAACCTTGCCAGGATCCGCGAAAACCAC  
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GACATCCTACTGGAGAAGAAGAAGGTGGCCCAGGACCAGCTGCGTGACAAGGCGCCGTTT  
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GCAGAGTTTCTTCTGGCAGAGACATTGAAATATTTGTACCTAATATTTTCTGACGACGATCT  
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Table 4

TAGTTTAAAACTGTCAGCAGTTTCATATGGTCCACCTAATATTATTGAAGACAATTATTTTC  
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GTTGTATGGCAGTTTACAGAACTCAATGACTTGTCTATGAGGTTTTCATATGAGCTACACATTG  
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&gt;1250

&gt;1251

&gt;1252

&gt;1253

TATAGGGAGTCGACCACGCGTCCGTAATTTTCATCGTGTATGTCACGGGCTATTTTCAT  
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&gt;1254

&gt;1255

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### Table 4

[illegible]

**>1256**

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**>1257**

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**>1258**

**>1259**

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**>1260**

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Table 4

ACCGGTGAGTTCTAGGCCTAAGGAAAATTGCTAAGTCAGTGTTACTCTCTAGTGATGTTGAG  
AACTAGAGGGATTTCAGACCTTTTACTTTTGATGAAAGGTTGTGAAGTGGTGGCTGTGGGT  
CAAATCCATCTCACAGATTTGTTTGGATCACACAGCN  
>1261  
>1262  
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AGTTCAAACGACTTTTCCTTGAGGGAGTATTTAATCGGACAAGGGAACCTTTTTCTTTTGG  
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>1263  
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>1265  
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CAAGAAAGCAGAATATGAAGGCATGATGGGTGGCTATCCGCCAGGCCTTCACCTTTGCAG  
GGCCCAAGTTGATGGCCTTGTTAGCATGGGCAGCATGCAGCCAATTCACCTGGGGGGCCT  
CCACCCCAACCATCTTCGCCAGGTGTGCCTGGCCTCCCGGGCATCCACCAACCGGGTGTG  
ATGAACCAAGGAGTGGCCCTATGGTAGGGACTCCAGCACCAGGTGGAAGTCCATATGGAC  
AACAGGTGGGAGTTTTGGGGCCTCCAGGGCAGCAGGCACCACCTCCATATCCCGGCCAC  
ATCCAGCTGGACCCCTGTCTACAGCAGCCAACAACACCCATGTTTGTAGCTCCCCACCA  
AAGACCCAGCGGCTTCTCACTCAGAGGCCTACCTGAAATACATTGAAGGACTCAGTGCGG  
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GTCCAAAGAAGCAGGAGAGCCGCCTACCCTCTCACTGGCTGAAAAGCAAAGGGGCCACAC  
CACCATTGGCAGATGCCCTCTGGCGCCTTCAGATTTGATGCTCCGGGACACCCTCAACATT  
CGCCAAGCATACAACCTAGAAAATGTTTAAATCACATCATTACGTTTCTTTATATAGAAGCATA  
AAGAGTTGTGGATCAGTAGCCATTTTACTGTTTGGGGTGGGGGAAGGAACAAAGGAGGA  
TAATTTTTATTGCATTTTACTGTACATCACAAGGCCATTTTATATACGGACACTTTTAATAAG  
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TTTCCTTCGTTTAAACCAGTTTCATAATTGGTTGTATATGTAGACTTGGAGTTTATCTTTTA  
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GGTTTTGGGTTTTTTATATATATATATAAAAAGCAAAAATGAAAAAACAACACACACAAG  
AGTTTACAGATTAGTTTAAATTGATAATGAAATGTGAAGTTTGCCTAGTTTACATCTTAGAGA  
GGGGAGTATACTTGTGTTTGTTCATGTGCCTGAATATCTTAAGCCACTTCTGCAAAAGCTG  
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CAGCACATTTGCTCTATTAAGTCAAGAGGCTCACTACAGAAATATGTAATCAGTGCTGTGCATC  
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GAGTTAGACATCTGTGAGTTAGACTATGGTGTGAGTATTTTGCAGAACACGTGCACAACC  
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GTTCTGCTTGAAGAAAGCATTAAAGGTATGCATGGAGGTGATTTATTTTAAACATAACACCTA  
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CAAGTAGATTGATTGCCTTCATATACAAGTATGTTTATGATTTCTTATTTCTTATTATCAGAT  
GTATTTTTCTTTTAAAGTTTCAATGTTGTTATAATTCTCAACCAGAAATTTAATCTTTCTAAAA  
TATTTTTTAAATTTAGCTTGTGCTTTTGAATTACAGGAGAAGGGGAATCATAATTTAATAAACG  
CTTACTAGAAAGACCATTACAGATCCCAAACACTTGGGTTTGGTGACCCTGTCTTTCTTATAT



Table 4

GACCCTACAATAAACATTTGAAGGCAGCATAGGATGGCAGACAGTAGGAACATTGTTTCACT  
TGGCGGCATGTTTTGAAACCTGCTTTATAGTAACTGGGTGATTGCCATTGTGGTAGAGCTT  
CCACTGCTGTTTATAATCTGAGAGAGTTAATCTCAGAGGATGCTTTTTTCTTTTAACTGCTA  
TGAATCAGTACCCAGATGTTTAATTACTGTACTTATTAATCATGAGGGCAAAGAGTGTA  
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TAGTCAACCACTGGATTTGAATTTGCATCAAGTATTTTAAATAATATTGAATTTAAAAAATGT  
ATTGCAGTAGTGTGTCAGTACCTTATTGTTAAAGTGAGTCAGATAAATCTTCAATTCCTGGCT  
ATTTGGGCAATTGAATCATCATGGACTGTATAATGCAATCAGATTATTTTGTTCCTAGACATCC  
TTGAATTACACCAAAGAACATGAAATTTAGTTGTGGTTAAATTATTTATTTTATTCATGCATTCA  
TTTTATTTCCCTTAAGGTCTGGATGAGACTTCTTTGGGGAGCCTCTAAAAAATTTTCACTG  
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GTGCTATAGGAAACATAGATCCAGCCAGGGGCTTCCCTAAAGCAGTGACAGCACCGGCCAG  
GGCATCACTAGACAGGCCCTAATTAAGTTTTTTTTTAAAAAGCCTGTGTATTTATTTTAGAATCA  
TGTTTTTCTGTATATTAACCTGGGGGATATCGTTAATTTAGGATATAAGATTTGAGGTCAGC  
CATCTTCAAAAAAGAAAAAATTTGACTCAAGAAAGTACAAGTAACTATACACCTTTTTTTC  
ATAAGTTTTAGGAACTGTAGTAATGTGGCTTAGAAAAGTATAATGGCCTAAATGTTTTCAAAAT  
GTAAGTTCCTGTGGAGAAGAATTGTTTATATTGCAAACGGGGGGACTGAGGGGAACCTGTA  
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TTTATTCTAATTTCTGTATCATATCATCTGAGGTTTACGTGGTAACTAGTCTTATAACATGTAT  
GTATCTTTTTTTTGTGTTTCATCTAAAGCTTTTTAATCCAAATAAATACAGAGTTTGCAAAGTG  
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&gt;1266

&gt;1267

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&gt;1271

NATCCCGGTTCTTGTCTGCAAATTAAGTCACTTCTTAAGGAGGTACAATTTAG  
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AGTTTTCTCTCAAATCCATACTTTAAGAGCTTATGGGCTGGGTGCGGTGGCTCACACCTGTA  
ATCCCAGCACTTGGGGAAGCCAAGGTGGGCAGATAAGTAGAGGCCAGGAGTTCGAGACCA  
GCCTAGACAAANNNNNNN

&gt;1272

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TGGAGGCGGCCAAGAAGAACTTAAGCGAGGCCCTGGGGGACAACGTGAAACAATACTGGG  
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TGTCAGATTTTGGTTTCTACACCAGATGGTGCTGGATCTTTGCCTTGGCCAGGGGGTTCCGC  
AGCAAAACCTGGAACCCCAAGGGAAGAAAAAGCTTTCTTCTGTTCTGTCAGAAATTTGATC  
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GATGATGACGACTTGAACTTTGTTCCACACAATGATGCTTCCCACTCGAGGCCAGCTTGA  
AGGGAGAATGATAGTGAAGTCTTATGAGCATGGGCTGGACAATGTCACCGAGGAGGCTGTT  
TCAGCTGTTGTCTATGCTGTGGAGAATCACCTTAAAGATATACTGACGTCAGTTGTGTCAGA  
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TTACTGCTCCCTGTGCTGGTCAGAATCCAGCTTCTACCCACCCCTGATGATGCTGAGCAG  
CAGGCTGCACTCCTGCTGGCATGCTCCGGAGACACTCTACCTGCATCTTTGCCTCCGGTGA  
ACATGTACGATCTTTTTGAAGCTTTGCAGGTGCACAGGGAAGTCATCCCTACACATACTGTC  
TATGCTCTTAACATTGAAAGGATCATCACGAACTCTGGCATCCAAATCATGAAGAGCTGCA  
GCAAGACAAAGTTCACCGCCAGCGCTTGGCAGCCAAGGAGGGGCTTTTGTGTGCTAAATT



Table 4

AGGATTTGAGGGTGTGGGACCCTCACCGAATTCATTGATTACTGAAAATTGAATGTTTTTTGG  
GTCCACATTTCAAGGCTGAAGTGTATAGTGTATATAACCTTTCTATGGAAATGTGACATT  
GAGTACATTTTGTGTTGCTGTTGTGAAGCCATTAATATAAATCTTTGGTAATGACCCATATCTC  
TATATGTATGTGTTCCAGTTGTGGGAGCAGGCACTAATGAAATCCTGTGCCTGGAATGGAG  
ATATTTAGGTACCTGAGGCTTAGTGTCTGTGGTCTGCATGTAAGATAGATGACATCCTAGA  
ACAAAGAAGCTGTTTTAACTTAATCCCCCTGATCAGCAGGATATCTGTGTGTTGAGTGACATC  
ATACATTCTGTATCTAGAAGTCTAAAATTTCTGCCTTTCTCCTAAAGAATGTGTTCTTGCAATT  
TGGTTGAAATAACCTACACAGTGTTAAAAATCAGATACCTCCTTAGTGACCAGTTCAAATTTT  
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GTGCTCTGTGTACTAAACAAATAAAGCCCCTCTTTGCATTTAAACCAAAGTCAAAACAAAA  
CTCTTGTAATGCAATTAATTAACCTTTATGTCTTCCCATGACTCAAGTTTTGTTAAATATGCCCA  
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CAAATTTGGATATATGCTTGGTAATTCCTCAGTTTCTAGGAGGTACCTATTTCTACCGTTTCAA  
GTGATGAAGTGAAAATAATTTACATTCGATAGTGTTACTGATAACAAACCTACTTAAGAGATAT  
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NNNNNNNNNNNNNNNNNNNN

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&gt;1274

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&gt;1276

NNNNNNNGCTAGGAGGGGTGTCGTGTGCATGCGCGTTGAAGAGGATCTGTATTGCC  
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GGATGTGGCCCTGCATGACCCTCCTTCTCCTGTACTTCTTCTTCTTCCAAATGGGAATTA  
GAACTGTGGGGCAGCAACAGTCTCAGAGCCAGTGAGAGGCCAGCTTAGAGAATGCTTCTGA  
GTTAGTGAGGACTCTGTGTCAAGTAAGCAAATGAATATATGAAAGAAATTATGGAGATAAGT  
TAGATTCTTGGTAATACTTAAATGTCTTGCTTCTACTAACCTTTTGTACTAAAGGTAAAGGG  
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ACCATCTGAATTATAGTAGATTTCTCAATAGTAGGAACTGAAAAATACTATGTAAATATC  
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TAGCCACATTTTCAGGCTCCGTAAATCATTGAGCCATTATTTTTCCCAACAAATGGTGAA  
TTTTTTCTTTAAATGTGGATATATATGTTGTAATTTATGATTCCTGGTTATGTATTTTGTGGGA  
TCCTGCAGTAAATGACTTTTTGTGTCTTTGGGAGATTTAAATTGCGCTAACAGTGTTGCG  
CAAAATGAGTTCATGCCATTTAACATATTGATTTTAAATTATTAAGTATTAATTTACTATGA  
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GGTCN

&gt;1277

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ACTAAACTAAACTGAGCAGTTTAAACATTCAATTAAGGGATATCTAATGTGTTTA  
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GCAAGAGTAACATTATTTTACATTATTGCATCTCAGTGAAAAATAAATGGCAACAAATCTTA  
TATCTGCTTCTGCAGTTAATTCTGTTTCTTTGTTTGGTTGAAATATATGAAGGAAATCTGTC  
CTCACACAGTTGTGTAGTGGAAGGGGGGACTATTGTAACAGGCTGTGCACATAATTGTGG  
ATGATTTTCTTGATACAACAACAACTTN

&gt;1279

NNCTCTAGAGGCAGAACTTGCTGAATTTGAAGACTATTAATGATGCAGCTCTCACTG  
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CAGAGCAATATTCACATGACATCTTTCGGATCTGGAATCTTAATTACCATAGGTTGGAACTC  
TACCTGAACATAAAATAAGTGGTCTCTATCACGTTGAAATTACTTTAATATTTTCATTTATGTTT

Table 4

ATACTATTTATTTAAATGCGGAGAACATGGCTAACCATTTCAGGACCATTTAATTATCAAATTAT  
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AATTTACACTTTTTCTCCTGTGACAGCATCTATTCCCAAGGCAATCAACATTTTAATGGAACG  
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TAAAAATGCAAAAGGCAAATTTGAAATAACTATAAAAAATAACATTTAATGAACTTTTTAATATG  
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TATTTTCGAGTTATTTATATATCACAGAATTTGAAGTAAAGATCATCTAGCTGAATTTCTTTAT  
ATTAAGAAGAGGAGAGAAAATCTTAATACTAAGTATGTGTGAGCCTGGAGCTGCCATGGAGCA  
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ACATAATTTCAATATTTATACCTTTTACTGCAAAAATAAAATGAGTTTATCCTTGGCCTAAAG  
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&gt;1280

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CACTTTAAATACTTCTGGTGTCTTATGACTTAAACGCAAATAGCTTAGGCTTAGCTTTTTCTC  
TTAAGGGTTTAAGGAGTGAGAGCAGAGCCAAGTCTCTGGAGACGCTGAACCTGCTGTACAC  
CGAAAAATGAGATGTGCGGGGTAGGGGGCAGGGACGAGGCGGAAAAGGACTACTCGGATC  
ATTTTAAAGATGGGAGAGTAGCCACAGAGGAACAGAGTAGGAATCTAAACGAAGTAAAGCAG  
TACGGGGGTAGGTTTCCCTACACAGTGTTTTACTTAAGGGCACAGGAAAAGTTACAGAATGA  
CAAGAGAGGTGAGCAAGGAAATCTGCAGGGTGGCTGTTTTGAACTCACTACTGGTTTATTTA  
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AGAGGTGGAATTTTTATGGGCACCCACACGGTAGTCGATCCGCTCTCCTCTGGAAGACGGT  
CACCTTTCGAGGACCTGAAAATTTTTTTTAGGTGGCACCCCCCAACAAGCCGGCCGTCNN

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AGGAGAAACATAATGAAGAATCTGTGAGTAAAAAGAATATTCAGGCAACCCCTTCATC  
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GAGGTAGAGACCAAGTACAAAGAAGACGACTGTTTTCCACTTCCATTTAAACATTTTTAGCCA  
CTTCATTTCTATTTATTGAACAGGTCAAATTTGTCTTGTTATTTGTGAGT

&gt;1285

NNNAGGCAAACCTCCCTTTTTTTCTTCTTTTCTGCTGATCTTCAACAATTTACTTAA  
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AATGAAATGACTTAAAGTATATGTATGCTATCTGGCATGTAGTAGCAGTTTAATAAATTATAGT  
TTACATACACCAGAAGAGTACTTGCCCTCGCTTTTCTTGTATGGTACTTTTTAATCTTATT  
AACTAACCCCTGTGGTGGTGTGGCTACATTTCTTGAGTTTAGAAAACGAGATAAAGAATTG  
CTCATATCTTCCCAAATTTGTAGTATAAAAAAGATGCTGTCTGTTGTTTTGTAGAATAT  
GGAAGTCCCTGCAGTAAGTAGGCAACATGCTACCTTCTATTCAACACCAGCACTAGAACAA  
GGCAAGTGGGACCTTTGTGACACATGATTGATTTCTTAAAGTCATTGGCTCTGGAGAATC  
TGAGACACCTGCATCCACACCCACAGCTCAGGTTAGCTGCAAAAGTTACACATCTTCTCTAG  
GCCATACACCCACGTAGCATCTTCTCTAATGGT

Table 4

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&gt;1287

GCGTCCGGCTTGAGCCCGGGAGGAGAAGGTTGCGGTGGGCGGAGATCGCCCCAC  
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CTTACGTTCCCTTGCTTATGGGTTATAATTTTACATCCTCTTCAGATACAATCTGAGAACTTG  
TTGACTACCTTTGTTACATGCAAAAATTTTCTATTTTAAATTTGCATTATATTAATGGTTTCATA  
GTACATTCCAGTTCTTTATCTGAATACAAGCGTTTTGCTTTTATTTCCAGTTTCTTGGACCAGA  
ACAATAAAATACATAAGACATCGTTTCTATATGGTCACTATATAAGAATAAAGAATTGTTA  
TGTAATTTATTAATGAGTATACAGACCTTTACATAAAAACTAAGGTACCTCAGTGGAATCTG  
CTACAGTGCCTTCCCCCTCCCTACCCCTCCATTTTGTTTATAACCTTTTAGCTATCTAAATAATA  
CGTGTTCATACTCAGGATAGCTGGTTAGCTAGCAAAAAGAAATTAACATCTGTGAAGCCATATT  
CATTATCTTCCCTGTGACCAAGGCTGTTGACCTTAAATAAACATTAAGTTGATTTGCACAACA  
CTGTATTTGTGTGTGTGCATGTGCCTGTTTTGTGTGTGTATGTTGTGGGAAATAATTATGT  
TTGTTTCCGCATATATTCATTTTTAATGCATTCTGTAACTTTTCTCGAGTGGTGGTCATTGAGG  
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CAGTTTTTCCCAAATACTTATGGCAGATAAGAGCATTTTGTAAATAATAAACTAGCACCGTT  
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ATTTTACATTTAGCAAAGGTGCAACATTTGTTTTGGAGTTTGAGAGATATTTTCTTGTCTTC  
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NNNNNNNNNN

&gt;1288

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CCACGCCAGCTAATTTTTGTATTTTAGTAGAGATGGGGTTTACCGTGGTCTCAATCTCC  
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GGTCAGATTCTCAGACTCTAAAGCAAAGAAGACTATGTTGAGTGACAGCAAGACTGTTGAAG  
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&gt;1290

NCCTTAAGCGTTGAAACCCGGTACTCAGTTGATACTCGAAGACGGGGCCCCAAAAG  
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TTATATTGGCATCATTGACATTCTACAGTCTTACAGGTTTGTTAAGAAGTTGGAGCACTCTTG  
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CGGTTCCAGCGCTTCATGTGCAACACAGTATTTAAGAAGATTCCCTGTAAGTGGTTTCTACC  
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CTCTGGTAGGGAGCTGCCAATGCCAGAGGCCTCTCCTTCCACCTACATCCCATGAGAGCCA  
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CCTGCATATGTCAATGAGGTGAGGACCATTTCTGGGGAATTGGGATTTGCAAAAAATAAATA  
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&gt;1291

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TTATATTGGCATCATTGACATTCTACAGTCTTACAGGTTTGTTAAGAAGTTGGAGCACTCTTG  
GAAAGCCCTGGTACATGACGGAGACACTGTCTCAGTGCATCGCCAGGCTTCTACGCTGAA  
CGGTTCCAGCGCTTCATGTGCAACACAGTATTTAAGAAGATTCCCTGTAAGTGGTTTCTACC  
AATTGACTGCCTACTCCTGCCAGTGCTCCCTTACCCCAAGAGAACAGAGGGGCAGGACAC  
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Table 4

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AATAAATAATGTGTAGTTGTGGATGTAGGATCCATGCCGCAGAGATAGGCAGAGCCTATGT  
>1292

NNCGAGTCGGCCTTGTTGGCCTACTGGGCCATTTTGCTGCAGCCTGCGACCGAGTG  
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AGACGATCTCGAAGTAGATCATATACACCAGAATACCGGCGGCGAAGGAGCCGAAGCCATT  
CTCCAATGTCTAACC GGAGAAGACATACTGGCAGCAGGGCAAATCCAGATCCCAACACTTG  
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>1293

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>1295

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Table 4

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Table 4

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&gt;1304

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Table 4

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Table 4

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NNNNNNNNGCTAAGCAAAAGATTTTATAATGAAGAAAGATGAGTAACTAGCCTCTCA



Table 4

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&gt;1322

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ACGATAGGAGCTGGTTGTCAACTGATTTAATCAGTGGGTATTTAGTATGAGGCATA  
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GTAACAAAAAGCCTATATCTTTGATCCCAATAACCTATTTTAAATTTCTTTTTAAAAATAAAGTG  
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ANNNN

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Table 4

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Table 4

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NNGAAAGTGACCGTGTGCTTCGGACGGACCCGGGTGGTCGTGCCGTGCGGGGAC

Table 4

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Table 4

CCAGGTA CTCCAGCTACCAAGGCTCCAGGAACGGCTACCTGGGAGGACATGGCTTCAACGC  
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TGATCCTGTTTTTCTCAATGGTGGTGGAGGCCGGGAGCTTATATGTTTATTTATGTATGAA  
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NNNNNNNNGGAAGTAAACCAAGTATTTATTGAGTACCTATTTGCCAGATACGGCTAG

Table 4

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TGAN

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CTGTCCACTCTGAATTCATGCATGATCATGCTGATTATGGCTTTCCAAGTTGTGAGGGTAAAT  
TCAATTGGCGTGTTATTAAGGAAAAGCGGGATGCCTATGTGAGCCGCTGAATGCCATCTAT  
CAAAACAATCTCACCAAGTCCCATATAGAAATCATCCGTGGCCATGCAGCCTTCACGAGTGA  
TCCCAAGCCACAAATAGAGGTCAAGTGGGAAAAAGTACACCGCCCCACACATCCTGATCGCC  
ACAGGTGGTATGCCCTCCACCCCTCATGAGAGCCAGATCCCGGTGCCAGCTTAGGAATAA  
CCAGCGATGGATTTTTTCACTGGAAGAATTGCCCGGCCGAGCGTCATTGTTGGTGCAGG  
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CTGGAGAACGCTGGCGTGGAGGTGCTGAAGTTCTCCAGGTCAAGGAGGTTAAAAAGACTT  
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GATTCCAGATGTTGACTGCCTGCTCTGGGCCATTGGGCGGGTCCCGAATACCAAGGACCTG  
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GAATACCAACGTCAAAGGCATCTATGCAGTTGGGGATGTATGTGGAAAAGCTCTTCTTACTC  
CAGTTGCAATAGCTGCTGGCCGAAAATTTGCCCATCGACTTTTTGAATATAAGGAAGATTCC  
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TGCTGCTAACAAGGAAGAAAAGGTGGTTGGGATCCATATGCAGGGACTTGGGTGTGATGAAA  
TGCTGCAGGGTTTTGCTGTTGCAGTGAAGATGGGAGCAACGAAGGCAGACTTTGACAACAC  
AGTCGCCATTACCCCTACCTCTCAGAAGAGCTGGTCACACTTCGTTGAGAACCAGGAGACA  
CGTGTGGCGGGCAGTGGGACCCATAGATCTTCTGAAATGAAACAAATAATCACATTGACTTA

### Table 4

CTGTTTGAGTTTTATGATTTCTTTATTTTAAATCAGGATCTTCTGATAGTGGAATTTTTAGTAC  
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GCTGGAGTGCGGGGGTGCTATTTTCAAGTCTCACCAAACCTGGGGCTCCGGGGGTCAAGGGG  
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ATATTTGGATTTTGAACATGGGGCGTCCCAAGTTGGCCGGGTGGTCTAATCCACTTGAG  
GATTCGCCCCAGGCCTTAGTGTGAATTCAGGGACAGGGAAGGTATTACACACGGGGGAT  
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**>1340**

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 GGTAAGGGGTACTTTTAACTATTTGTTTCTTCTACGGTAATTGGTTTGTTGTGACTTTATCTAC  
 CTAGAGTAAATTTTGCAATTTGCATTTTTCTCAAATAGTTTTGAATTTATTGTGTAAAATTG  
 CTCAAAAATAGTCAATTTAAACAAATTTCTGTCTTTTACTATTTCCCCCTTGTCATTTAAATTTTTG  
 TATTTGTGCTTCTCTCTCTTTTCTTAAATAGTTTAGCTGGTAGTTTATCTGACTCAACTCCCC  
 GCAC TACCCATCACCAACTTTGGATTTTATTATTGCCGGACGCGTGGCGGCACGCGNN

**>1341**

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TTACAGCATAGGGTCTCTTGAGTCCTCTTAGTAAAACTATTGTGACACTTCCTTCTTTCTCC  
AAATATTCGGCCTGGAAAGACCCTAAATACAATGCAGGGATTGAATCAAATTCACACATTTTTT  
TTCCTACGGAAACAACAACCTTTCTTGCTATATTTAACAAAACTAGTATAGATTCCCTTTAT  
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**≥1342**

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CGTGCGCGCGATCCATGTCCATGTCCGCGCCTATCAATAAAGTTGCTCACTTGTTGCCGGC  
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GCCCTTGCGCTTCCGCGAGCTGGCGGGGTCCGTGGTGCGGGATCGAGATTGCGGGCTATG  
GCGCCGAAGGTTTTTCGTCACTACTGGGATATCCCCGATGGCACCGATTGCCACCGCAAAG  
CCTACAGCACCAACAGTATTGCCAGCGTCGTCTGGCCTGACCGCCGCTGCCTACAGAGTCAC  
ACTCAATCTCTCCGGGCACCTTCTTGAAGGAGTGGCTAAGGTTGGACAATACACGTTCACTG  
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CACGCACGCACAACACTACGGGATTGGCGCCGCCGCTGCGTGTACTTTGGCATAGCGGCCT  
CCCTGGTCAAGATGGGCCGGCTGGAGGGCTGGGAGGTGTTTGAAAACCAAGGTGTGAG  
CCCTGTGCCTGCCGGGACCTCCAGCCTGCAGAATGCGTCCAGAAATAAATTCTGTGTCTGT  
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ccccccga

**>1343**

**>1344**

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CCGACCGCGTCTCGGTCTCCGCGTCTGCCAGCCTGGCTGGCAGTCCGTCTGTCCATCCCG  
CCGCGCCGGGGCAGTCTAGGCGGAGCGGGGGCTCAGGCGGCGGCGGCCTCGACGCGAG  
TGAGTGTCTGGTTGGGGTGCTGGACCCAGAGTGCCTACCCTCGCCTGCCTGGGCCTCAG



Table 4

TTTCCACATCTGCACAATGGGGGTGACCATCCCTGCCCTGCTGGCTGCCAGGAGCGGCTGT  
GAGTCTTCAGGCGTGGATGCAGCCTGGGGGAAGCCATAGGGCGCTTTCACAGGCCTGGCC  
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TCTTCGTGGAGTCGGTGTCTGCTGGGCATTGTGATCCTGCTTGCTTACCGCCTGGAGTTCAC  
GGACACCTTCCCTGTGCACACCCAGGGATTCTTCTGCTATGACAGTACCTACGCCAAGCCCT  
ACCCAGGGCCTGAGGCTGCCAGCCGAGTGCCTCCTGCTCTTGCTACGCACTGGTCACTGC  
CGGGCCACCCCTCACGATCCTGCTGGGAGAGCTGGCGCGTGCCTTTTTCCCTGCACCACCT  
TCAGCCGTCCCAGTCATCGGGGAGAGCACCATCGTGTCTGGGGCCTGCTGCCGCTTCAGC  
CCCCCAGTGCGGAGGCTGGTCCGCTTCTGGGGGTCTACTCCTTCGGCCTCTTACCACGA  
CCATCTTCGCCAACGCGGGGCGAGGTGGTGACCGGCAATCCCACGCCACACTTCTGTCCGT  
GTGCGCCCACTACACGGCCCTGGGCTGCTGCACCTTCTCGGATCGGCAGGCCCGGCTG  
CCTGGCCGCGCCCCGTGCCTGCGCTGGCGGTCCAGCTCGTTGGCGGCGGCGGGGCTC  
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GGTGGGCGTGGTCCGCGTGGCCGAGTACCGAAACCACTGGTGGACGTGCTGGCTGGCTT  
CCTGACAGGGGGCGGCCATCGCCACCTTTTTGGTCACTGCGTTGTGCATAACTTTCAGAGC  
CGGCCACCCTCTGGCCGAAGGCTCTCTCCCTGGGAGGACCTGGGCCAAGCCCCACCATG  
GATAGCCCCCTCGAAAAGTTAAGTGTGGCGCAGGAACCCGAGGTCTGCAGGCCGCAATCGA  
CACCGGCACGGCTCACCCATCCAAGTCGCAGAACTGCGCCCCGCGTGGCCACCTGATCC  
CCAGCTGTGTCTCCTCCAGGGCCCCAGCCATGTGTTCTGCCCCGTGTGCCCGCTCCTCG  
ATTGAGGTCTGAGCCGACGCCCTTGCCCTGCCCTACCCCTGCCAGCGCCCCACCCCGAG  
CCAGGGCCCCCTCGCCTTCTCCTCCCTGGACCTGGGGGGCCAGGCGGGGGTGGTGGACGTG  
GCCGGAAGCTGCTGCTGCCACGCCCTGCTGCGGGACCTGTACACCCTGAGTGGACTCT  
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GCTGTGAGGCCCGACACCCACCCAGAATCTGCCAGTCCCACTTCTTCCCTGCCACGCG  
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GGAGAGGAGGGAGATGAGGTCAATTGTTTGTGATTGAGTCTTCTCTCAGAATCAGCGAGCCC  
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CATCATGGGGGGCATGGGTGGAGCAGAGGGGCTCCCTCACCCCGGGCAGGCAAAGGCAG  
TGGGTAGAGGAGGCACTGCCCCCTTCTGCCCCCTCCTCATCTTTAATAAAGACCTGGCT  
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NNNNN

&gt;1345

&gt;1346

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CATAGCTATATAGAGGTATTAATTGGCAGGACAAAATCATAGCTAGAGATAAAAAATTTAGAG  
TTCACCAAGTGTAAGATGATATTTGATGGCACAGGATGGACTTTCTTCTGGGATTGAGTATA  
CATAGAGGAAAGATGTGAGGATTGAGCACCAGGGGACTTCAACATTGACAGGCTCAACAGA  
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AGN

&gt;1347

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Table 4

ATTATTTAATCTTAAAGGTTTGGTAGAAATCCCCTTAAACAATCTGGGCTTGATGCTTCTTTT  
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CTCAAAATAGTCAATTTAAACAAATTTCTGTCTTACTATTTCCCCCTTGTCATTTAAATTTTG  
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GCACTACCCATCACCACCTTGGATTTATTATTGCCGGACGCGTGGCGGACGCGNN

&gt;1348

&gt;1349

&gt;1350

&gt;1351

ACAAGTATTATGTATCCATAAAAAATTA AAAAATCTTTAAAAATGCATATGGGGGTCAG  
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&gt;1352

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Table 4

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&gt;1353

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TTCTGGGGCCTTCTAGGCCTCTACCTGGAGGGGGGGCTCTTCCCCCGCCGAGAGCGC  
GCGCCTTGTGAGAGACAACGACTGCCTCAGAGTTAAATTAGAAGAGAGAGGAGTTGCTGAG  
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GTAAACATGACATTCCTGTCAGATATTGTTGTATACCAGTATGGTTTCTTCTTTCTTTAAAT  
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Table 4

ATCTTGTCTCAATAAGTTTAAAGTAACATTTAAAAATATTAAGCATGTTATTTGACCTAATTTT  
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CGTATGTGTGTATGCCTGGAGAATTGGTGTTCCTTCAGTGAGAGGATTGGCTGTGAGC  
TTCAGACCAGGAAATGTGTCATCTTGCCAGGCACCTGGCTGAGTGTGCTGGAGTGAGGATC  
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&gt;1359

&gt;1360

NNAGCTGCCGATACTACTACTAAATTCGCGCCCGGCTGCACCAAGGATTGGCCCAT  
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GAACTAATGGGAGAGGTGCTGGCTAGAGAAAAGTAAAAATTTCTGTTAGCTTTGCATTGAGC  
TTTTTAATATCATTTGTTTCATTTACCAGTTCAGAGGATTGGGGGTGATGGGCACACAGAAA  
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CAGTCGCCATGGAGCTCAGANNNNN

&gt;1361

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AGCACAACAAAATAGAGATTATCCTTAGAATTATTAATGCTTTGTTAAAGATCAGGTAGGATTA  
GAGGGTAAGAAATGGTATTGGGTGGAGGGAGCACCTGACTAGTTCTAAGGCTTTAGATACA  
ATGCAGTTGATTACATATTAATTCAGCCATTACATACTGGGGATAGTAGATGGGGGATCAGTA  
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CTCCTTAGGACCTTAAAGCCACCTGGATGACAACATTCCCATCCTTTCTCCACCCCATTCCT  
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NNNNNNNNNAAATTTCTATTCTGATAGCAATAATAAGAAGTAGGAAATTTACATAG

Table 4

TCAGCAACCTAACACTGTGAGAAAGAATCCAAGTAGCAGGTCATTAAACAGATGGCATTTA  
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TGCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCTGCCGCACCCGGCCGT  
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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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>1384  
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GCCCCGCCCCGGGAGCCAGATTTTGTGGAAGTATAATACITTTGTCATTATGAGATGTCGTCTC  
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Table 4

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NNNNNGGTTGTGGGTGGAGGGTGTTTTAAATAACAGCTTTACAGAGAGATATCATTC  
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Table 4

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Table 4

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GGTCGACN

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ACGCGTCCGCGCTAACCAAGTCCCCAGTTCAGTAGACTGGAGCCAGAGCCTGCTT  
ACTTGTGAGGTGTTTATTTTGTCTTGCTTTTTTTTTTTTTTAAATGAAGTCAAAATGCCAATAA  
GACCAGATCTCCAGCAGTTGGAAAAATGCATTGATGATGCTTTAAGAAAAATGATTTCAAAC  
CTTTGAAAACACTTTTGCAAATTGATATTTGTGAAGATGTGAAGATTAATGCAGCAAACAGT  
TTTTCCACAAGGTGGACAACCTTATATGCAGGGAACCTAATAAAGAGGATATCCACAATGTTT  
CAGCCATTTTGGTTTCTGTTGGAAGATGTGGCAAAAATATCAGTGTATTGGGGCAAGCTGGA  
CTTCTAACGATGATAAAACAAGGACTAATACAAAAGATGGTTGCCTGGTTTGAAAAATCCAAG  
GACATTATTCAGAGTCAAGGAAATTCAAAAGATGAAGCTGTTCTAAATATGATAGAAGACTTA  
GTTGATCTTCTGCTGGTCATACATGATGTCAGTGATGAAGGTAAAAACAAGTAGTGGAAAG  
TTTCGTACCTCGCATTTGTTCCCTGGTTATTGACTCAAGAGTGAATATTTGTATTTCAGCAAGA  
GATTATAAAAAAATGAATGCTATGCTTGACAAAATGCCTCAAGATGCCCGGAAAAATACTCTC  
TAACCAAGAAATGTTAATTCTCATGAGTAGTATGGGAGAAAGGATTTTAGATGCTGGAGATTA  
TGACTTACAGGTAGGCATTGTAGAAGCTTTGTGTAGAATGACCACAGAAAAACAAGACAAG  
AACTGGCACATCAGTGGTTTTCAATGGATTTTATTGCTAAGGCATTTAAAGAATTAAGGACT  
CTGAATTTGAAACAGATTGCAGGATATTTCTCAACCTTGTAATGGCATGCTTGGAGACAAAA

Table 4

GAAGGGTCTTTACATTTCTTGTTTATCAGCATTCTTGATAAATATGAGCTGCAAATACCATC  
AGATGAAAACTTGAGGAATTTTGGATTGATTTTAACTCTGGGAGTCAGACTCTCTCATTCTA  
CATTGCTGGAGATAATGATGATCATCAATGGGAAGCAGTTACTGTGCCAGAGGAAAAAGTAC  
AAATATACAGCATTGAAGTGTGAGAATCAAAGAAGCTACTGACAATAATTCTGAAAAATACAG  
TAAAAATTAGCAAAAGAGAAGGGAAAGAATTGCTTTTGTATTTTGACGCATCACTAGAAATCA  
CTAATGTAACCTCAAAAAATTTTGGTGCAACTAAACATAGGGAATCTATCAGAAAACAAGGTA  
TTTCAGTTGCCAAAACGTCGCTGCATATACTTTTTGACGCAAGTGGATCACAGATTCTAGTGC  
CAGAAAGTCAAATCTCACCAGTCGGAGAAGAGCTCGTTAGTTTAAAGGAAAAATCAAAGTCC  
CCAAAGGAATTTGCTAAACCTTCAAAATATATCAAAAACAGTGACAAAGGGAATAGAAATAAT  
AGTCAGCTTGAGAAAACTACTCCTAGCAAAAAGAAAAATGTCTGAAGCATCAATGATTGTTTCT  
GGTGACAGATAGATACTATGAGAAGTCCAGTGCTTTTCAGCAACACATCAATACCACCACG  
AAGAAGAAGAATTAACCACCACTGCAAATGACGAGCTCTGCAGAGAAACCTAGTGTCTC  
AAACATCAGAAAATAGAGTGGATAATGCTGCATCACTGAAATCTAGATCATCAGAAGGAAGA  
CATAGAAGAGATAATATAGACAAACATATCAAACTGCTAAGTGTGTAGAAAACACAGAAAAT  
AGAATGTTGAATTCCCAAACCAAAATTTTGTGAAGTCCAGGATGTTATACCAGATTCACAG  
GCAGCGGAAAAAAGAGATCATACTATATTACCTGGTGTGTTTAGACAACATCTGTGGAAATAAA  
ATACACAGCAAATGGGCATGTTGGACACCTGTAACAAACATTGAAGTGTGTAATAACCAAGA  
GCAAGTACTTCGTCAGGAGACACATTGAATCAAGATATTGTTATAAATAAAAAACTTAAAG  
CAAAAATCATCCTCTTCAATATCTGATCATAATTCTGAAGGAACAGGAAAAAGTGAATATAAG  
AAAGAACAACCGACCATATCAAAATAGATAAAGCAGAAGTAGAAGTTTGCAGGAAACACAA  
TCAGCAACAAAATCATCCTAAATATTGAGGGCAGAAAAATACTGAAAATGCCAAGCAGAGTG  
ATTGGCCTGTTGAATCTGAACTACTTTTAAATCGGTTCTCCTAAATAAGACAATTGAAGAAT  
CGCTGATATATAGGAAGAAATACATATTGTCAAAGATGTGAATACTGCTACTTGCAGATAAAA  
ATCCATCTGCTAGCAAAAATGTGCAAAGTCATAGAAAAGCAGAGAAAAGTGAAGTCTGAG  
CTTAATTCCTGGGATTCGAAACAAAAAAAATGAGAGAAAAGTCAAAAGGGAAAGAAATTTACG  
AATGTAGCAGAATCCTTGATAAGCCAAATCAATAAAGATACAAAACAAAAGATGACATCAAG  
TCTACAAGAAAATTAAGGAGTCTTTGATTAACAGTGGTTTTTCAAACAAACCTGTTGTACAA  
CTCAGTAAGGAAAAAGTTCAGAAAAAAGCTACAGAAAAGTGAAGACTACCTTTGTTAATGTT  
ACTTCTGAATGCCAGTGAATGATGTTTACAATTTTAAATTTGAATGGAGCTGATGACCCTATC  
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AATTATAACAAATCATCAAAAGAAAAATCTGTTTAGTGAAGTGAACAGAGTACAGATGTGA  
TAGAAGTAACGAGATGTATAGAGAAAATACAGAAAAGGATTTTACTCAGGATTATGACTGCA  
ATAGCAGAAATAAAAATGTGAAGAATCATAAAGTGGAAAATCAAGATCATCCTTGGAAAAGG  
GACAGCCAAGCTCTAAATGACACCCAGTAAAAATATCACAAAAAAGATGGACAAGACAATT  
CCGGAAGGAAGAATCAGACTTCCACGAAAAGCAACCAAAACAAAAAAAACCTATAAAGATCT  
CTCAAAATTCAGAAATCAGAGTGTGAACAAGAATTTTACATTCAATTAAGAGAACATACCAGT  
AAAGGAGGAGAATATCCATTCCAGAATGAAAACGGTAAAGCTACCAAAAGAAACAACAGAAAG  
TCTTCTGTGCTGAAACAGAAAAGGAAGTATCAAAACAATGAAAAACTCATCTCTACTAAAAG  
ATGCTATACGAGATAATTGCCTTGACTTATCTCCAGATCTTTATCTGGCAGTCCATCATCTA  
TAGAAGTAACGAGATGTATAGAGAAAATACAGAAAAGGATTTTACTCAGGATTATGACTGCA  
TAACAAAATCTATATCACCTTATCCAAAACTTCATCACTTGAATCCTTAAATAGTAACAGTGG  
AGTTGGAGGTACAATAAAGTCAACCAAAAACAATGAGAAAACTTCTGTGTGCAAGTGAAG  
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ATTCAGATGTAAGCAGTTATAGTTTCAAGAAGACGGTTTATGGAAATTGAATCTCCACATATCA  
ATGAAAATTATACAAAAGCAAAAGAGAGGAAAGTCAATTTAGCATCTTCATTATCCAAGTCTA  
GTGAAGGAAGAGAGAAAACGTTGTTTACATGCCCTGTGATGCTACTCATGTATCAGGCCC  
CACCCAACATCTTAGTCGCAAAAGAATATATAGAAAGATAATCTAAGTAATTCATGAAGT  
AGAAATGGAAGAGAAAGGAGAAAGGAGAGCAAACTTGCTTCCAAAAAAGTGTGTAATTTG  
AAGATGCAGATCATCATATCCACAAAATGTCTGAAAGTGTATCTTCATTATCAACAAATGACTT  
TTCTATTCTTGGGAGACCTGGCAAAATGAATTTGCAGGGATAGAGATGACTTATGAGACTT  
ACGAGAGGCTCAATTCAGAAATTAAGAGAAGGAATAATATCCGACATAAAATGTTGAGTTATT  
TACTACGCAGTCTTGGAAAACAGCTCAGCAACATCTGAGAACAATGAATCATCAAAGTCAG  
GACTCTAGGATTAAAAACTTGATAAATCCAAATCATTATCATAGAGGAGCTGGAGAATTTT  
GAAAAAGATTCACAGTCTTTAAAGATTGGAAGGAATTTGTGGACTTTTGGGAAAAGATA



Table 4

TTTCAGAAGTTCAGTGCATATCAAAAAAGCGAACAACAGAGGCTTCATCTTTTAAAACTTCA  
TTGGCTAAAAGTGTCTTCTGTAATACTGATAGTGAAGAACTGTTTTACATCCGAGATGTGT  
TTGATGAAAGAAGATATGAAAGTGCTGCAAGACAGGCTTCTTAAGGACATGCTAGAAGAGGA  
GCTTCTTAATGTACGCAGAGAACTGATGTCAGTATTCATGTCTCATGAAAGAAATGCTAATGT  
GTGAAATCTAGTTTTTATCACCATACTTTATCTAATTATTATTCTCTGTATATAACTGAGGAAAT  
AAGAATAGTCTACAAAGAGAAAAATATACATGTCACCGAAGCAAGTGTACCCTTTATAGGAA  
CCCTCAAATTAATAAAAAATGTCCTTTAATGGATGAGAGGGAACCACTATAACATGAGTCCAA  
GCCCAGAAGACTTCTGTCTATACAATATTTTTTTTTAATTTTGGAGATAAAAGCTTTAAGAAAC  
TTTTGAGTTAATTATACTCATAAAATGAGTTTCTTTAATAAATTAATTTTATTGTGTAAAATGT  
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TAATAAATGTAATTAATCACTAATAAAAAATTTAGCCACACTTACAAGGGGGAGGAAGTCCCTAG  
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GATATGGCTCTAATGTATTAGGAAGCACTAAATGGCCTAAAAAGCTACTACATTGCCTAAAT  
ATGTTAATTCATATAGAAGTCTATTTTATAACCAGGCTGTTTGACAAATACTTTAATCTAG  
TAGTCATTGTAATATCTTGCTAGATTAATTTATAAAAAATGAGTATACATTTGATTTGCTTTAAT  
GAAGTTGAAATAAATGCTTATGTCACCTGAATAAATATAAATCATTATANNNN

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ACTTACAAAAATTTTTAACATTAGGAGGTAATTATAAGTAGATTCTGTGATTAGGACTT  
CATTCTGTATCTTTTGCTACATAAACCTTTGTTAGATTAAATGGAAGACACCTGCTAGGTGA  
TACTTTTTATAAAACATATGAGTAAGTCATATATCTTTGTTAAATTTCTGTATGTTCTTTTTGT  
ATAAAGATGGAGAGAAAGGATGGAGTGATACTAAGGACCCTAATAACATCTCTGTTCAAATTA  
ATTACTAAGTGATAGAAGTATTCATATGCCATTAAGATTTGCCAATTCTATTTGAATTTTATT  
GATAAACTTGAAAATCAAATAACCTAACAGCTGTCTTTCTTTCTTTCTAAACCCTTTAAGAA  
TAGATTTAATATTTTTCTGAGTTTTCTTAAAGAGTTATTTATGTTACGGTTTGTTTTTATAAAA  
GTAGCATCGCAAAATAAAAAAGTCTGCATCCTTGCAAGTTATTCAGTCTCACGTGCTTGCTC  
TTCTCTGGTAAATTAATAAATAAAGATCAAGAAGAGTCTGGGAGGAGGAACAGATGAGTCA  
GATGGGTTGAATCCTGTGAGTAAGTGAAAGAGTAATAGGAAAAAAACACTATGGTCATGAA  
AGAACTGCATCCTGAAAGGTTGTG

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CAATTAACATAAACTTTTTTTAAATTAACATAAAGTTGGTATTTCACTAGGACGATTTAG  
CAGATGAAATGGGTTTTAAGTTTAGAACACCATTTCTTCTTCTTATTACATTTCCCTTTTTAAT  
GTTAGCCCTCNN  
AAAGCCTTCTACATTAATACTTGAGCATGATAACCTTACAATGAAAGGTAATCATTAGTTG  
AATCATGAAACATTTTCTTCCCCTTGTTGGAGAAAAATCAAATTGCTTTTCTCTGCTCTTACAC  
CACAATCATCAACACAGTAGACTTCTGTGACCAAAATGTGTGGGGATTTCTCCCCACCAACAA  
GAAGCAATCAGTTCTGCAGAAGATACCACAGCTGAGCACCTTCTAATCCAATTCATTCTCA  
TGCTATCTACCTGGAGATAGCATTAGATCCACAGGCTGAGAGAGGGCTCAGTCTCACAAG  
ACTGCCCCCACTTCAGACACTAGTTGTAAGGCCAGGCCTCATCCAGAATTCTGGCCAACCA  
GCTTCAAGTCAGTGTTCCCCTGACCCCCCTTCTTAGGTTTGATTATTTGCTAAAGCTGTGCC  
CAGAACTCAGGAAAACACGTGTACTGGTTTATTATAAAGAATAGCACAAAGAATGCAGATGA  
AGAGGTGCACAGAACAAGGCATGTGGGAAGGGGTGCAGAGCTCTCATACCCTCCCTGGGT  
GCACCACCCTCCAGGACCCTCCACGTGTTGAGCTATCTGGAAGCTCTCTGTACCCGGTCCA  
GGACTTCACTGGACCGTCACGANTGAAGCATGGACAACCGGGTANAAATATGATTGGANNNN  
N

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NNNNNNNNNNNNNAAAGGAAAAAGGAAGAAAGAAATTCAGAAAGGAGGTTTCGCAG  
TGAATTTTCAGTGGCACCATACCCACAGGCAGTTTCTAGGGAGTTCCACCAGTTCCCAGAG  
CATGGCTTCCCAGCAAATTCCTTGGCATCACCTCCAGGTAGCTTCCAGAGAGTTCCACTA  
GCACACTAGAGGCCATCTTCTTATAACGCCCAAGAGTGTTCAGGCACCCACAGGGTAA



Table 4

CTGTCTAGTGATTTCACCAGCACCCCCAGAAAGCAGGCCCTGCTTGCCAGCCACCACAT  
GGACAACCCACAGGCTTCCCCACTATCCAGTGGGCGTGACCAAATCCTGTTAATGAGG  
TCTGGATCTCGGCCCTGGGGAGCCACCCCATTCCTGGATTTGCTCCCTCCTGGGTCCCCTG  
CCTTAGCCCAGCAGTTACAGATGCTCTTGCAATTTGCTGCTTATGTTCTCTTAGAGTCCTCA  
GTCCCTCTAGCAGCTAATCCCATGTTACCAGTTGACGACTCTTCTAGGAAACTTCACCTGTT  
GGTGTAATTAAGTACAAGCTCTATGGAAAAAGTATGGAGATTTCTCAAAGAACTAAACATAA  
ACCCCATTCATCCAGCAAGCCCACTACTTGGCA

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TACCTAATTTAAAATTGTTGTTCCATAATTTTTTAAAAAGAAAAATTACAGAAATAAGACTTGG  
GGGGTGGGGGTTGAAAAGTGGTGAAAGAACTAAACAAGTAGAAGAGGATTTCTAAAGCACT  
GGTCTCATGAAAAAGTTTCATGTGTGACTGGGTCCACTGAGATTGAAAAGAAATTTGTTATA  
CGATATTCTAAAAATTAATGTTGCTGTCAGGGATGACATGATACAGGACCAGAGTCTGTGTA  
AACAACAAAGTTTCTTAAAGTATTGATACACGCTTTTAAAAATTGCAAGAGGTTTAAAGTTTA  
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NN  
TTTGTGTTTACATTAAATGGTTTTGGTTTGGCTTCTTTAGTCAGGCTTTCTGAACATTGAGAT  
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CCAGAGTACGCGGGCAGTGTCTATCTCTGAGGCTGAGCATTATAAGAAAATGACCTCTGCT  
CCTTTTCATTGCAGAAAATGCCAGGGGCTTATTTTCAGAACAACTTCCACTTACTTTCCACTG  
GCTCTCAAACCTCTCTAACTTATAAGTGTGTGAACCCCCACCCAGGCAGTATCCATGAAAGC  
ACAAGTGACTAGTCCTATGATGT

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NNACCATATAGGTTGGACGACGGAGACACGTCATTCATGCGAACTTTCCCTTCACCCA  
AATGCAGAGCAAATGTTGCTCCCCAGAAGCCACAAGGTAGCTGAAGCCATTTCTAGTTGACA  
TCGGCAATCTCCATTCTCTTCACTCCACACTTTGACAACTCACTCTGTGGAGCCATTTGGCTCA  
GTCAAATTTTTATTTTTTTTTTTTTTACATATATAGCATAGTGCTGATGCTTAAAGATCCTGTTG  
ACTGAAATAAGTTGCAAGGAATATTAGTTTCAGGGAAATATCAAAGTGTAATAATATATGGGA  
TAGTGAGAAAGAAAAAGCCATCCAACACCAGCACATTAGAAATTACTCAATCACTTCTGTGAT  
GTGAAAAAGGGATCAGCACCCACCCAGAGCAAACTCAAACCTCTGAGTCTATTACCAGTTAA  
GTCAAGACTTGGCTTCTATTTTGCAGAAAGTAATCAGTAACTGAGTCAGCTGTGAAATTCCTGGT  
TGCTCCTTGATCTTGTGTAACATTTATCCAATCATTTAGGCTGTTTGGGTTGAAGGAGGGTTAT  
TACAATAAGAATCTTTGAGAGACTTTTCAAGAAAATTGTTTATTGTTGGGGGGAAAAAAC  
CCCTCATTGCCCCACAGGAATAAGGTTTGGTCTGTCAGCCAAAGGTATTGTTTATTATTCAA  
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AGTTAGAAGAGACACTTTTAAACAGTATTTTTTATTTAAAAAAATTCTCTCCACAGGACTTAC  
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ACATCCTTCACAGTGCTATATTACCTTGTCTGTGATATTATGGATCCTGGTTAGGAAAAGGATT  
CATACCACAACCAATCACGTCCGCCTATGCTGAGAAAGTGTCATTTCTTTAGGCTGAAAAATAA  
GACTGTACTTTATAAACAATAGGAAAAATGTGATCTATTGCTTCTTTTCTTGGTCCGTGCCCC  
TCGCCTTGCTAAGTCAGTTTTTCGACTGCCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT  
TGCGTATGTGTGTCCAGAGGCCACTGATCCAGTCAAGTGTATTTAGAAAATTAGTTCACTGGC  
TCACAAAGGCTTAGAGGCCACTACTGCGCTGGGAAATCCATTGAGCTTGGCTTGTCTCTC  
TTGCTCTTGCCAATGTGCACTCTGCTTACATGCACACACTCCTTAGGAAGATGCCAGTTATCTC  
TATTTTATGN

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